

Commission Implementing Regulation (EU) No 872/2012 of 1 October 2012 adopting the list of flavouring substances provided for by Regulation (EC) No 2232/96 of the European Parliament and of the Council, introducing it in Annex I to Regulation (EC) No 1334/2008 of the European Parliament and of the Council and repealing Commission Regulation (EC) No 1565/2000 and Commission Decision 1999/217/EC (Text with EEA relevance)

COMMISSION IMPLEMENTING REGULATION (EU) No 872/2012  
of 1 October 2012

adopting the list of flavouring substances provided for by Regulation (EC) No 2232/96 of the European Parliament and of the Council, introducing it in Annex I to Regulation (EC) No 1334/2008 of the European Parliament and of the Council and repealing Commission Regulation (EC) No 1565/2000 and Commission Decision 1999/217/EC

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 2232/96 of the European Parliament and of the Council of 28 October 1996 laying down a Community procedure for flavouring substances used or intended for use in or on foodstuffs<sup>(1)</sup>, and in particular Articles 3(2) and 4(1) and Article 5 thereof,

Having regard to Regulation (EC) No 1334/2008 of the European Parliament and of the Council of 16 December 2008 on flavourings and certain food ingredients with flavouring properties for use in and on foods and amending Council Regulation (EEC) No 1601/91, Regulations (EC) No 2232/96 and (EC) No 110/2008 and Directive 2000/13/EC<sup>(2)</sup>, and in particular Article 25(1) thereof,

Whereas:

- (1) Regulation (EC) No 2232/96 provides for a Community procedure for evaluation and authorisation of flavouring substances. The Member States notified to the Commission the list of flavouring substances which may be used in or on foods marketed on their territory.
- (2) Regulation (EC) No 2232/96 provides for a list of flavouring substances that are authorised to the exclusion of all others. That list is to be established on the basis of a register containing the flavouring substances notified by the Member States and on the basis of a specific evaluation programme.
- (3) The notified substances were entered in a register laid down by Commission Decision 1999/217/EC of 23 February 1999 adopting a register of flavouring substances used in or on foodstuffs drawn up in application of Regulation (EC) No 2232/96 of the European Parliament and of the Council<sup>(3)</sup>.

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

- (4) Commission Regulation (EC) No 1565/2000<sup>(4)</sup> has laid down the measures necessary for the adoption of an evaluation programme in application of Regulation (EC) No 2232/96. Pursuant to Article 5(2) of Regulation (EC) No 2232/96, flavouring substances not included in the register have also been included in the evaluation programme.
- (5) The European Food Safety Authority (hereinafter referred to as ‘the Authority’) evaluated a number of flavouring substances<sup>(5)</sup> through a stepwise approach that integrates information on structure-activity relationships, intake from current uses, toxicological threshold of concern, and available data on metabolism and toxicity. Those flavouring substances which do not give rise to safety concerns at their levels of dietary intakes should be included in the list referred to in Regulation (EC) No 2232/96.
- (6) Pursuant to Article 2(1) of Regulation (EC) No 1565/2000, substances that are contained in the register and have already been classified by the Scientific Committee on Food (hereinafter referred to as ‘SCF’) in Category 1<sup>(6)</sup> or by the Council of Europe in Category A<sup>(7)</sup> or by Joint FAO/WHO Expert Committee on Food Additives (hereinafter referred to as ‘JECFA’), so as to present no safety concern, as laid down in the reports of its 46th, 49th, 51st and 53rd meeting<sup>(8)</sup>, need not be re-evaluated within the evaluation programme. These substances should be included in the list referred to in Regulation (EC) No 2232/96.
- (7) Pursuant to Article 2(2) of Regulation (EC) No 1565/2000, substances contained in the register and classified by JECFA, since 2000, so as to present no safety concern on the basis of the default approach for estimation of intake, have to be considered by the Authority. Those substances, for which the Authority agreed with the JECFA conclusion, should be included in the list referred to in Regulation (EC) No 2232/96.
- (8) Flavouring substances may be used in or on foods in accordance with the good manufacturing practices or, if necessary, with specific conditions. The list referred to in Regulation (EC) No 2232/96 should contain information on the unique identification number of the substance (FL-No), the name of the substance (Chemical name), the Chemical Abstracts Service registry number, the JECFA number, the Council of Europe number, the purity, the specific conditions of use and reference to the scientific body that has carried or is carrying out the evaluation.
- (9) For the purpose of this Regulation, the food categories as laid down in Annex II to Regulation (EC) No 1333/2008 of the European Parliament and of the Council of 16 December 2008 on food additives<sup>(9)</sup>, should be referred to. When necessary, interpretation decisions can be adopted in accordance with Article 13(c) of Regulation (EC) No 1334/2008 in order to clarify whether or not a particular food belongs to a certain category of food.
- (10) Flavouring substances which did not receive a favourable assessment on their safety have been listed in Part A of Annex III to Regulation (EC) No 1334/2008 concerning substances which shall not be added as such to food or have been deleted from the register by Commission Decisions 2005/389/EC<sup>(10)</sup>, 2006/252/EC<sup>(11)</sup> and 2008/478/EC<sup>(12)</sup>.

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

- (11) Flavouring substances for which the requested information has not been provided and which, therefore, have not been evaluated by the Authority in accordance with Article 3(5) of Regulation (EC) No 1565/2000, should not be included in the list referred to in Regulation (EC) No 2232/96.
- (12) Flavouring substances for which the persons responsible for placing them on the market have withdrawn the application should not be included in the list referred to in Regulation (EC) No 2232/96.
- (13) For a number of substances, the Authority has not completed the evaluation or it has requested additional scientific data to be provided for completion of the evaluation. In accordance with the objectives of Regulations (EC) No 2232/96 and (EC) No 1334/2008 and in order to enhance legal certainty it is appropriate to include those substances in the list referred to in Regulation (EC) No 2232/96 to allow those substances which are currently placed on the market, to continue to be used in or on foods until risk assessment and authorisation procedures have been concluded.
- (14) To manage the submissions of additional scientific data requested by the Authority, time limits should be set for the persons responsible for placing flavouring substances on the market so as to comply with the Authority's requests as expressed in the published opinions. Therefore, footnotes 2 to 4 have been assigned for those substances for which the Authority has requested additional scientific data in the list referred to in Regulation (EC) No 2232/96. A time limit should be set for the Authority to evaluate the submitted data. Where the necessary information is not provided by the time requested the flavouring substance in question may not be evaluated in accordance with Article 3(5) of Regulation (EC) No 1565/2000 and therefore will be withdrawn from the Union list in accordance with the procedure laid down in Article 7 of Regulation (EC) No 1331/2008 of the European Parliament and of the Council<sup>(13)</sup>.
- (15) Flavouring substances for which the Authority has not yet completed the evaluation and no request for additional information is pending, should be identified as such by footnote 1 in the list referred to in Regulation (EC) No 2232/96.
- (16) If the authorised flavouring substance is a racemate (an equal mixture of optical isomers), both the R- and S- form should also be authorised for use. If only the R-form is authorised then the S-form should not be covered by that authorisation and vice versa.
- (17) Several D- and D,L-amino acids have been evaluated as safe by the Authority for use as flavouring substances, provided that the substances are in an unchanged form when they are consumed. Therefore, the amino acids should be included in the list referred to in Regulation (EC) No 2232/96 concerning their use as flavouring substances only.
- (18) The list referred to in Regulation (EC) No 2232/96 is intended only to regulate the use of flavouring substances which are added to food in order to impart or modify odour and/or taste. Certain substances on the list may be also added to food for other purposes than flavouring and such uses remain subject to other rules. For some substances it is necessary to lay down a use level which refers to their use as a flavouring substance. These substances are caffeine (FL 16.016), theobromine (FL 16.032), neohesperidin dihydrochalcone (FL 16.061) and rebaudioside A (FL 16.113). For ammonium chloride

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

- (FL 16.048) national provisions are already in place. Therefore, for ensuring the functioning of the internal market the use levels should be harmonised.
- (19) The Authority has recommended, in its opinion adopted on 22 May 2008<sup>(14)</sup>, that for d-camphor (FL 07.215) a maximum use level should be set to ensure that exposure to d-camphor does not exceed 2 mg/kg body weight on a single day in any age group. Therefore, specific conditions of use should be set for d-camphor.
- (20) SCF concluded in its opinion adopted on 19 February 1988<sup>(15)</sup>, that it saw no objection from a toxicological point of view to the continued use at present levels (up to max 100 mg/l) of quinine in bitter drinks. The Authority does not contest this evaluation but recommends that the toxicological database on quinine should be reconsidered<sup>(16)</sup>. Pending the re-evaluation of quinine, the use of three quinine salts (FL 14.011, FL 14.152 and FL 14.155) should be restricted to non-alcoholic and alcoholic drinks.
- (21) The Authority considered glycyrrhizic acid and its ammoniated form in the opinion adopted on 22 May 2008<sup>(17)</sup>. The Authority agreed with the evaluation by the SCF<sup>(18)</sup>, which considered that the intake up to 100 mg/person/day would not give rise to safety concerns. Therefore, specific conditions of use should be set for glycyrrhizic acid (FL 16.012) and its ammoniated form (FL 16.060) as flavouring substances.
- (22) Regulation (EC) No 1334/2008 repeals Regulation (EC) No 2232/96 from the date of application of the list referred to in Article 2(2) of that Regulation. It is therefore appropriate, for reasons of legal certainty, to fix the date of application of that list. The principle of mutual recognition laid down in Regulation (EC) No 2232/96 should however continue to apply to flavouring substances included in the Annex to this Regulation for which footnotes 1 to 4 have been assigned. Regulation (EC) No 2232/96 will cease to apply and will become obsolete once the risk assessment and authorisation procedures for those flavouring substances have been concluded.
- (23) The evaluation programme provided for by Regulation (EC) No 1565/2000 was intended for the establishment of the list referred to in Article 2(2) of Regulation (EC) No 2232/96. With the establishment of that list Regulation (EC) No 1565/2000 becomes obsolete and should be repealed. It should however continue to apply to flavouring substances included in the Annex to this Regulation for which footnotes 1 to 4 have been assigned. Regulation (EC) No 1565/2000 will cease to apply and will become obsolete once the risk assessment and authorisation procedures for those flavouring substances have been concluded.
- (24) The register of flavouring substances used in or on foods adopted by Decision 1999/217/EC has become obsolete with the establishment of the list referred to in Article 2(2) of Regulation (EC) No 2232/96 and should be repealed.
- (25) Regulation (EC) No 1334/2008 provides that the Union list of flavourings and source materials shall be established by introducing the list of flavouring substances referred to in Article 2(2) of Regulation (EC) No 2232/96 into Annex I to Regulation (EC) No 1334/2008 at the time of its adoption. The list of flavouring substances referred to in Article 2(2) of Regulation (EC) No 2232/96 should be introduced into Annex I to Regulation (EC) No 1334/2008 accordingly.

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

- (26) The Union list of flavourings and source materials is to apply without prejudice to other provisions laid down in sector specific legislation.
- (27) The use of flavourings and source materials in infant formulae, follow-on formulae, processed cereal-based foods and baby foods and dietary foods for special medical purposes intended for infants and young children as referred to in Directive 2009/39/EC of the European Parliament and of the Council of 6 May 2009 on foodstuffs intended for particular nutritional uses<sup>(19)</sup> will be harmonised in the future in the framework of specific rules to be adopted on the composition of foodstuffs intended for infants and young children. Meanwhile, the Member States should be able to apply national provisions in this matter stricter than the ones provided for in the list of flavouring substances referred to in Article 2(2) of Regulation (EC) No 2232/96.
- (28) Pursuant to Regulation (EC) No 1334/2008 flavouring substances not included in the Union list may be placed on the market as such and used in or on food until 18 months after the date of application of the Union list. Since flavouring substances are already on the market in the Member States, provisions have been made to ensure that the transition to a Union authorisation procedure is smooth. To this effect transitional periods have been laid down for food containing those flavouring substances in Commission Regulation (EU) No 873/2012<sup>(20)</sup>.
- (29) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Food Chain and Animal Health,

HAS ADOPTED THIS REGULATION:

#### *Article 1*

#### **Definitions**

For the purposes of this Regulation the following definitions shall apply:

- (a) ‘Union list’ means the list of flavourings and source materials set out in Annex I to Regulation (EC) No 1334/2008;
- (b) ‘evaluated flavouring substances’ means substances for which the evaluation and approval have been completed at Union level. Those substances are assigned no footnotes in Part A of the Union list of flavourings and source materials;
- (c) ‘flavouring substances under evaluation’ means substances for which the risk assessment at Union level has not been completed at the time of entry into force of this Regulation. Those substances are assigned footnotes 1 to 4 in Part A of the Union list of flavourings and source materials.

#### *Article 2*

#### **Adoption of the list of flavouring substances referred to in Regulation (EC) No 2232/96**

The list of flavouring substances referred to in Article 2(2) of Regulation (EC) No 2232/96 is hereby adopted as set out in Part A of the Annex to this Regulation.

---

*Changes to legislation:* There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

### *Article 3*

#### **Introduction of the list of flavouring substances into Regulation (EC) No 1334/2008**

The text in the Annex to this Regulation is introduced into Annex I to Regulation (EC) No 1334/2008.

### *Article 4*

#### **Flavouring substances under evaluation**

Flavouring substances under evaluation may be placed on the market and used in or on foods pending their inclusion as evaluated flavouring substances in Part A of the Union list or their removal from that list.

### *Article 5*

#### **Updating the list**

Where necessary, Part A of the Union list shall be updated in accordance with the procedure referred to in Article 7 of Regulation (EC) No 1331/2008 as from the date of entry into force of this Regulation.

### *Article 6*

#### **Repeal of Regulation (EC) No 2232/96**

1 For the purposes of Article 24(2) of Regulation (EC) No 1334/2008, concerning the repeal of Regulation (EC) No 2232/96, the date of application of the list of flavouring substances referred to in Article 2(2) of Regulation (EC) No 2232/96 shall be 22 April 2013.

2 However, Articles 1 and 2, Article 3(1) and (2), and Article 4(1) and (2) of Regulation (EC) No 2232/96 and the Annex thereto shall continue to apply to flavouring substances under evaluation pending their inclusion as evaluated substances in Part A of the Union list or their removal from that list. References made in those Articles to the Register of flavouring substances shall be construed as references to Part A of the Union list.

### *Article 7*

#### **Repeal of Regulation (EC) No 1565/2000**

Regulation (EC) No 1565/2000 is hereby repealed with effect from 22 April 2013. However it shall continue to apply to flavouring substances under evaluation.

### *Article 8*

#### **Repeal of Decision 1999/217/EC**

Decision 1999/217/EC is repealed with effect from 22 April 2013.

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

## *Article 9*

### **Provisions for foods for infants and young children**

Member States may apply national provisions which are more restrictive than Part A of the Union list as regards the use of flavouring substances in infant formulae, follow-on formulae, processed cereal-based foods and baby foods and dietary foods for special medical purposes intended for infants and young children as referred to in Directive 2009/39/EC. Those national measures must be essential to ensure that consumers are adequately protected and must be proportionate to the attainment of that objective.

## *Article 10*

### **Entry into force**

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 22 April 2013.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 1 October 2012.

*For the Commission*

*The President*

José Manuel BARROSO

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

## ANNEX

## UNION LIST OF FLAVOURINGS AND SOURCE MATERIALS

## PART A

## Union list of flavouring substances

## SECTION 1

*Content of the list*

Table 1 contains the following information:

Column 1 (FL No.): the unique identification number of the substance

Column 2 (Chemical Name): the name of the substance

Column 3 (CAS No): the Chemical Abstracts Service (CAS) registry number

Column 4 (JECFA No.): The Joint FAO/WHO Expert Committee on Food additives (JECFA) number

Column 5 (CoE No.): The Council of Europe (CoE) number

Column 6 (Purity of the named substance at least 95% unless otherwise specified): The purity of the named flavouring substance has to be at least 95%. If less, the composition of the flavouring substances is given in this column.

Column 7 (Restrictions of Use): The use of flavouring substances is permitted in accordance with good manufacturing practices unless specific restriction is given in this column. Flavouring substances with restrictions of use may only be added to the listed food categories and under the specified conditions of use. For the purpose of the restrictions the following food categories, as laid down in Annex II of Regulation (EC) No 1333/2008, shall be referred to:

Category number	Food category
1	Dairy products and analogues
2	Fats and oils and fat and oil emulsions
3	Edible ices
4.2	Processed fruit and vegetables
5	Confectionery
5.3	Chewing gum
6	Cereals and cereal products
7	Bakery wares
8	Meat
9	Fish and fisheries products
10	Eggs and egg products

**a** [OJ L 124, 20.5.2009, p. 21.](#)

**b** [OJ L 183, 12.7.2002, p. 51.](#)

---



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

11	Sugars, syrups, honey and table-top sweeteners
12	Salts, spices, soups, sauces, salads and protein products
13	Food intended for particular nutritional uses as defined by Directive 2009/39/EC <sup>a</sup>
14.1	Non-alcoholic beverages
14.2	Alcoholic beverages, including alcohol-free and low-alcoholic counterparts
15	Ready-to-eat savouries and snacks
16	Desserts excluding products covered in category 1, 3 and 4
17	Food supplements as defined in Directive 2002/46/EC <sup>b</sup> of the European Parliament and of the Council excluding food supplements for infants and young children
18	Processed food not covered by categories 1-17, excluding foods for infants and young children

<sup>a</sup> OJ L 124, 20.5.2009, p. 21.

<sup>b</sup> OJ L 183, 12.7.2002, p. 51.

Column 8 (Footnotes): The footnote '1' is allocated to the flavouring substances for which the evaluation has to be completed by the Authority. The footnotes '2' to '4' refer to time limits set for the applicants to comply with the Authority's requests as expressed in the published opinions. Where the necessary information is not provided by the time requested, the flavouring substance in question will be withdrawn from the Union list. The Authority shall evaluate the submitted data within 9 months from the receipt of such data. Substances which have already been evaluated by JECFA can be recognised from the JECFA number listed in column 4.

- (1) evaluation to be completed by the Authority
- (2) additional scientific data shall be submitted by 31 December 2012
- (3) additional scientific data shall be submitted by 30 June 2013
- (4) additional scientific data shall be submitted by 31 December 2013

Column 9 (Reference): Reference to the scientific body that has carried out the evaluation.

## SECTION 2

### Notes

*Note 1:* Ammonium, sodium, potassium and calcium salts as well as chlorides, carbonates and sulphates are covered by the generic substances, providing that they have flavouring properties.

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

*Note 2:* If the authorised flavouring substance is a racemate (an equal mixture of optical isomers), both the R- and S- form shall also be authorised for use. If only the R-form has been authorised then the S-form is not covered by this authorisation and vice versa.

*Note 3:* Maximum levels refer to levels in or on food as marketed. By way of derogation from that principle, for dried and/or concentrated foods which need to be reconstituted the maximum levels shall apply to the food as reconstituted according to the instructions in the labelling taking into account the minimum dilution factor.

*Note 4:* The presence of a flavouring substance shall be permitted:

- (a) in a compound food other than as referred to in the Annex, where the flavouring substance is permitted in one of the ingredients of the compound food;
- (b) in a food which is to be used solely in the preparation of a compound food and provided that the compound food complies with this Regulation.

TABLE 1

(1) FL No.	(2) Chemical Name	(3) CAS No.	(4) JECFA No.	(5) CoE No.	(6) Purity of the named substance at least 95% unless otherwise specified	(7) Restriction of Use	(8) Footnote	(9) Reference
01.001	Limonene	138-86-3		491				EFSA
01.002	1-Isopropyl-4-methylbenzene	99-87-6	1325	620				EFSA
01.003	Pin-2(10)-ene	127-91-3	1330	2114			2	EFSA
01.004	Pin-2(3)-ene	80-56-8	1329	2113			2	EFSA
01.005	Terpinolene	686-62-9	1331	2115				EFSA
01.006	alpha-Phellandrene	99-83-2	1328	2117	At least 85%; secondary components 10-12% cymene and other terpene hydrocarbons			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

01.007	beta-Caryophyllene	87-44-5	1324	2118	80-92% beta-caryophyllene and 15-19% C <sub>15</sub> H <sub>24</sub> terpene hydrocarbons (eg. valencene)	2	EFSA
01.008	Myrcene	123-35-3	1327	2197	At least 90%; secondary components C <sub>15</sub> H <sub>24</sub> terpene hydrocarbons (eg. valencene); Minimum assay value may include traces of limonene, alpha- and beta-pinene and other common C <sub>10</sub> H <sub>16</sub> terpenes.	4	EFSA
01.009	Camphene	79-92-5	1323	2227	At least 80%; secondary components 15-19% C <sub>15</sub> H <sub>24</sub> terpene hydrocarbons (eg. valencene)	2	EFSA
01.010	1-Isopropenyl-4-methylbenzene	1195-32-0	1333	2260			EFSA
01.014	1-Methylnaphthalene	90-12-0	1335	11009		4	JECFA/ EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

01.015	Vinylbenzene	100-42-5		11022			1	EFSA
01.016	1,4-Bisabolatriene	495-62-5	1336	10979				EFSA
01.017	Valencene	4630-07-3	1337	11030	At least 94%; secondary components 1-4% other C15H24 sesquiterpenes		2	EFSA
01.018	beta-Ocimene	13877-91-3	1338	11015	At least 80%; secondary component 15-17% cis-beta-ocimene		4	EFSA
01.019	alpha-Terpinene	99-86-5	1339	11023	At least 89%; secondary components 6-7% 1,4- and 1,8-cineole			EFSA
01.020	gamma-Terpinene	99-85-4	1340	11025				EFSA
01.024	beta-Bourbonene	5208-59-3	1345	11931			2	EFSA
01.026	1(5),7(11) Guaïadiene	88-84-6	1347				2	EFSA
01.027	Bisabolatriene	118627-44-0						EFSA
01.028	beta-Bisabolene	495-61-4						EFSA
01.029	delta-3-Carene	13466-78-9	1342	10983	At least 92%; secondary components 2-3% beta-pinene; 1-2% limonene; 1-2% myrcene;		2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					0-1% p-cymene			
01.033	2,2-Dimethylhexane	590-73-8						EFSA
01.034	2,4-Dimethylhexane	589-43-5						EFSA
01.035	2,6-Dimethylocta-2,4,6-triene	673-84-7				2		EFSA
01.038	Dodecane	112-40-3						EFSA
01.039	delta-Elemene	20307-84-0		10996				EFSA
01.040	alpha-Farnesene	502-61-4	1343	10998	At least 38% alpha and 29% beta (sum of cis/trans isomers); secondary components 20% bisabolene, up to 10% other isomers (valencene, bourbonene, cadinene, guaiene)	4		EFSA
01.045	d-Limonene	5989-27-5	1326	491				EFSA
01.046	l-Limonene	5989-54-8		491				EFSA
01.054	Pentadecane	629-62-9						EFSA
01.057	Tetradecane	629-59-4						EFSA
01.059	4(10)-Thujene	3387-41-5		11018		2		EFSA
01.061	Undeca-1,3,5-triene	36356-11-9	1341		At least 94% (sum of cis/trans isomers); secondary	4		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					component 2,4,6- undecatriene (Z,Z,E)		
01.064	cis-3,7-Dimethyl-1,3,6-octatriene	3338-55-4				2	EFSA
01.070	1-Octene	111-66-0				2	EFSA
01.077	1-Methyl-1,3-cyclohexadiene	1489-56-1	1344				EFSA
02.001	2-Methylpropan-1-ol	78-83-1	251	49			JECFA
02.002	Propan-1-ol	71-23-8	82	50			JECFA
02.003	Isopentanol	123-51-3	52	51			JECFA
02.004	Butan-1-ol	71-36-3	85	52			JECFA
02.005	Hexan-1-ol	111-27-3	91	53			JECFA
02.006	Octan-1-ol	111-87-5	97	54			JECFA
02.007	Nonan-1-ol	143-08-8	100	55			JECFA
02.008	Dodecanol	112-53-8	109	56			JECFA
02.009	Hexadecanol	30653-82-4	114	57			JECFA
02.010	Benzyl alcohol	100-51-6	25	58			EFSA
02.011	Citronellol	106-22-9	1219	59	At least 90%; secondary components 5-8% di-unsaturated and saturated C10 alcohols, 1% citronellyl acetate,		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					1% citronella			
02.012	Geraniol	106-24-1	1223	60				EFSA
02.013	Linalool	78-70-6	356	61				JECFA
02.014	alpha-Terpineol	98-55-5	366	62				JECFA
02.015	Menthol	89-78-1	427	63				JECFA
02.016	DL-Borneol	507-70-0	1385	64				EFSA
02.017	Cinnamyl alcohol	104-54-1	647	65				EFSA
02.018	Nerolidol	7212-44-4	1646	67				EFSA
02.019	2-Phenylethan-1-ol	60-12-8	987	68				EFSA
02.020	Hex-2-en-1-ol	2305-21-7	1354				2	EFSA
02.021	Heptan-1-ol	111-70-6	94	70				JECFA
02.022	Octan-2-ol	123-96-6	289	71				JECFA
02.023	Oct-1-en-3-ol	3391-86-4	1152				1	EFSA
02.024	Decan-1-ol	112-30-1	103	73				JECFA
02.026	3,7-Dimethyloctan-1-ol	106-21-8	272	75	At least 90%; secondary components 5-7% geraniol and citronello			JECFA
02.027	(-)-Rhodinol	6812-78-8	1222	76				EFSA
02.028	3,7-Dimethyloctan-3-ol	78-69-3	357	77				JECFA
02.029	3,7,11-Trimethyldodeca-2,6,10-trien-1-ol	4602-84-0	1230	78				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.030	alpha-Pentylcinnamyl alcohol	101-85-9	674	79				EFSA
02.031	3-Phenylpropan-1-ol	122-97-4	636	80				EFSA
02.033	1-Phenylpropan-1-ol	93-54-9	822	82				EFSA
02.034	1-Phenylpentan-2-ol	705-73-7	825	83				EFSA
02.035	2-Methyl-1-phenylpropan-2-ol	100-86-7	1653	84				EFSA
02.036	4-Phenylbutan-2-ol	2344-70-9	815	85				EFSA
02.037	3-Methyl-1-phenylpentan-3-ol	10415-87-9	649	86				EFSA
02.038	Fenchyl alcohol	1632-73-1	1397	87				EFSA
02.039	4-Isopropylbenzyl alcohol	536-60-7	864	88				EFSA
02.040	Pentan-1-ol	71-41-0	88	514				JECFA
02.041	2-Methylbutan-2-ol	75-85-4		515				EFSA
02.042	2-(4-Methylphenyl)propan-2-ol	1197-01-9	1650	530	At least 90%; secondary component 9-11% p-isopropenyltoluene			EFSA
02.043	2-Ethylbutan-1-ol	97-95-0		543				SCF/CoE
02.044	Heptan-3-ol	589-82-2	286	544				JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.045	Heptan-2-ol	543-49-7	284	554				JECFA
02.047	3,7-Dimethyloctane-1,7-diol	107-74-4	610	559				JECFA
02.049	Nona-2,6-dien-1-ol	7786-44-9	1184	589			2	EFSA
02.050	Pent-2-en-1-ol	20273-24-9	793	665			2	EFSA
02.051	5-Phenylpentan-1-ol	10521-91-8	75	674				EFSA
02.052	2-Methylpropan-2-ol	75-65-0		698				EFSA
02.054	p-Menthane-1,8-diol	80-53-5		701				EFSA
02.055	3,5,5-Trimethylhexan-1-ol	3452-97-9	268	702				JECFA
02.056	Hex-3(cis)en-1-ol	928-96-1	315	750c				JECFA
02.057	Undecan-1-ol	112-42-5	106	751				JECFA
02.058	(Z)-Nerol	106-25-2	1224	2018				EFSA
02.059	DL-Isoborneol	124-76-5	1386	2020	At least 92%; secondary component 3-5% borneol			EFSA
02.060	p-Mentha-1,8-dien-7-ol	536-59-4	974				2	EFSA
02.061	Dihydrocarveol	610-01-2	378	2025				JECFA
02.062	Carveol	99-48-9	381	2027				JECFA
02.063	d-Neomenthol	2216-52-6	428	2028				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.064	1-Phenylethan-1-ol	98-85-1	799	2030				EFSA
02.065	4-Methyl-1-phenylpentan-2-ol	7779-78-4	827	2031				EFSA
02.066	4-Phenylbut-3-en-2-ol	17488-65-3	819				2	EFSA
02.067	1R,2S,5R-isopulegol	89-79-2	755	2033			4	EFSA
02.070	Cyclohexanol	108-93-0		2138				EFSA
02.071	p-Menthan-2-ol	499-69-4	376	2228				JECFA
02.072	4-Terpinenol	562-74-3	439	2229				JECFA
02.073	2-Phenylpropan-1-ol	1123-85-9	1459	2257				EFSA
02.074	Hex-4-en-1-ol	6126-50-7	318	2295				JECFA
02.075	(1R,2S,5S)-neo-Dihydrocarveol	8675-33-7		2296				EFSA
02.076	2-Methylbutan-1-ol	137-32-6	1199	2346				EFSA
02.077	Pentan-3-ol	584-02-1		2349				EFSA
02.078	Ethanol	64-17-5	41	11891				JECFA
02.079	Isopropanol	67-63-0	277					JECFA
02.080	1-(p-Tolyl)ethan-1-ol	536-50-5	805	10197				EFSA
02.081	2,6-Dimethylheptan-4-ol	108-82-7	303	11719	At least 90%; secondary component			JECFA
					8-9% 2-heptanol			

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.082	2-Ethylhexan-1-ol	104-76-7	267	11763				JECFA
02.083	p-Menth-1-en-3-ol	491-04-3	434	10248				JECFA
02.085	Sabinene hydrate	546-79-2	441	10309				JECFA
02.086	Undecan-ol	21653-30-1	297	11826				JECFA
02.087	Nonan-2-ol	628-99-9	293	11803				JECFA
02.088	Pentan-2-ol	6032-29-7	280	11696				JECFA
02.089	Hexan-3-ol	623-37-0	282	11775				JECFA
02.090	Non-2(trans)-en-1-ol	51502-14-4	365	10292			2	EFSA
02.091	Myrtenol	515-00-4	981	10285			2	EFSA
02.092	Dehydrodiisylolone	57069-86-8	897	10195	At least 70%; secondary component 25-27% tetrahydroionone			JECFA
02.093	Non-6-en-1-ol	35854-86-3	324	10294				JECFA
02.094	Oct-3-en-1-ol	20125-84-3	321	10296				JECFA
02.095	2-Ethylfenchol	18368-91-7	440	10208				JECFA
02.096	1-Terpinenol	586-82-3	373	10252				JECFA
02.097	beta-Terpeneol	138-87-4	374	10254				JECFA
02.098	Octan-3-ol	589-98-0	291	11715				JECFA
02.099	Pent-1-en-3-ol	616-25-1	1150	11717			1	EFSA
02.100	Pinocarveol	947-36-4	1403	10303				EFSA
02.101	Pin-2-en-4-ol	473-67-6	1404	10304				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.102	Oct-3-en-2-ol	76649-14-4140				1	EFSA
02.103	Decan-3-ol	1565-81-7295	10194				JECFA
02.104	Hex-1-en-3-ol	4798-44-11151	10220			1	EFSA
02.105	4-(2,6,6-Trimethyl-2-cyclohexenyl)but-3-en-2-ol	25312-34-991				2	JECFA
02.106	4-(2,2,6-Trimethyl-1-cyclohexenyl)but-3-en-2-ol	22029-76-392			At least 92%; secondary components 3-8% ionol and ionone	2	JECFA
02.107	Dihydro-beta-ionol	3293-47-8395					JECFA
02.108	2-Methyl-4-phenylbutan-2-ol	103-05-9	1477	10281			EFSA
02.109	3-Methylbut-2-en-1-ol	556-82-1	1200	11795			EFSA
02.110	2,6-Dimethylhept-6-en-1-ol	36806-46-948			At least 90%; secondary component 5-10% 6-methyl-5-hepten-2-one		JECFA
02.111	3-Methylbutan-2-ol	598-75-4	300				JECFA
02.112	Non-2(cis)en-1-ol	41453-56-9369	10292			2	EFSA
02.113	Oct-5(cis)en-1-ol	64275-73-622			At least 90%; secondary component 7-9%		JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					trans-5-octen-1-ol			
02.114	2-(2,2,3-Trimethylcyclopent-3-enyl)ethan-1-ol	1901-38-8970						EFSA
02.115	3-Methylpentan-1-ol	589-35-5	263	10275				JECFA
02.119	Cedrenol	28231-03-0		10189				EFSA
02.120	(+)-Cedrol	77-53-2		10190				EFSA
02.121	Butan-2-ol	78-92-2		11735				SCF/CoE
02.122	p-Mentha-1,8(10)-dien-9-ol	3269-90-7				2		EFSA
02.123	2-Methylbut-3-en-2-ol	115-18-4		11794				EFSA
02.124	6-Methylhept-5-en-2-ol	1569-60-4		10264				EFSA
02.125	Undec-10-en-1-ol	112-43-6		10319				EFSA
02.126	Tetradecan-1-ol	112-72-1		10314				EFSA
02.128	p-Anisyl alcohol	105-13-5	871	66				EFSA
02.129	(l)-alpha-Bisabolol	23089-26-1		10178	Sum of isomers at least 95%			EFSA
02.131	But-3-en-2-ol	598-32-3				1		EFSA
02.132	Butane-1,3-diol	3107-88-0						EFSA
02.133	Butane-2,3-diol	3113-85-9		10181				EFSA
02.134	2-Cyclohexylethan-1-ol	4442-79-9						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

02.135	Cyclopentan-1-ol	20641-3		10193				EFSA
02.136	Dec-1-en-3-ol	51100-54-0	1153				1	EFSA
02.137	Dec-2-en-1-ol	22104-80-9	794	11750			2	EFSA
02.138	Dec-9-en-1-ol	13019-22-2						EFSA
02.139	Deca-2,4-dien-1-ol	18409-21-7	1189				2	EFSA
02.140	1,2-Dihydrolinalool	2270-57-7						EFSA
02.141	2-(6,6-Dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethan-1-ol	128-50-7	986					EFSA
02.142	3,3-Dimethylbutan-2-ol	464-07-3						EFSA
02.144	2,6-Dimethyloct-7-en-2-ol	18479-58-8						EFSA
02.145	2,6-Dimethylocta-1,5,7-trien-3-ol	29414-56-0					1	EFSA
02.146	(E)-3,7-Dimethylocta-1,5,7-trien-3-ol	53834-70-1		10202	At least 93%; secondary components 2-3% linalool, 1-2% linalool oxide and up to 1% nerol oxide		4	EFSA
02.147	3,6-Dimethyloctan-3-ol	151-19-9						EFSA
02.148	Dodecan-2-ol	210203-28-8		11760				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.149	(-)- alpha- Elemol	639-99-6		10205				EFSA
02.150	(E,E)- geranyl linalool	1113-21-9						EFSA
02.152	Hept-3- en-1-ol	10606-47-0		10219				EFSA
02.153	Hepta-2,4- dien-1- ol	33467-79-7	1784			2		EFSA
02.154	Heptadeca- ol	1454-85-9						EFSA
02.155	1- Hepten-3- ol	4938-52-7	1842	10218			1	EFSA
02.156	Hex-2(cis)- en-1-ol	928-94-9	1374	69	At least 92%; secondary component 3-4% hex-2(trans)- en-1-ol		2	EFSA
02.159	Hex-3- en-1-ol	544-12-7	315	750				SCF/ CoE
02.162	Hexa-2,4- dien-1- ol	111-28-4	1174				2	EFSA
02.164	4- Hydroxy-3,5- dimethoxybenzyl alcohol	530-56-3						EFSA
02.165	4- Hydroxybenzyl alcohol	623-05-2	955					EFSA
02.166	2-(4- Hydroxyphenyl)ethan-1- ol	501-94-0		10226				EFSA
02.167	(1R,2R,5S)- Isodihydrocarveol	8675-35-9						EFSA
02.168	Isophytol	505-32-8		10233				EFSA
02.170	(R)-(-)- Lavandulol	498-16-8						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.171	p-Menthan-8-ol	498-81-7						EFSA
02.173	3-(4-Methoxyphenyl)propan-1-ol	5406-18-8						EFSA
02.174	2-Methylbut-2-en-1-ol	4675-87-0		10258			1	EFSA
02.175	2-Methylbut-3-en-1-ol	4516-90-9		10259				EFSA
02.176	3-Methylbut-3-en-1-ol	763-32-6		10260				EFSA
02.177	2-Methylhexan-3-ol	617-29-8		10266				EFSA
02.178	2-Methyloctan-1-ol	818-81-5						EFSA
02.180	4-Methylpentan-1-ol	626-89-1		10278				EFSA
02.181	2-Methylpentan-2-ol	590-36-3		10274				EFSA
02.182	3-Methylpentan-2-ol	565-60-6		10276				EFSA
02.183	4-Methylpentan-2-ol	108-11-2		10279				EFSA
02.184	3-Methylpentan-3-ol	77-74-7		10277				EFSA
02.186	Myrtanol	514-99-8						EFSA
02.187	Non-1-en-3-ol	21964-44-3		10291			1	EFSA
02.188	Nona-2,4-dien-1-ol	62488-56-6	6183	11802	At least 92%; secondary component 3-4% 2-		2	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

					nonen-1-ol		
02.189	(Z,Z)- Nonan-3,6- dien-1- ol	76649-25- <del>7</del> 283	10289				EFSA
02.190	Nonan-3- ol	624-51-1	10290				EFSA
02.192	Oct-2- en-1-ol	22104-78-5				2	EFSA
02.193	Oct-2- en-4-ol	4798-61-21141				1	EFSA
02.194	Octa-1,5- dien-3- ol	83861-74-9				1	EFSA
02.195	Octa- (3Z,5E)- dien-1- ol	70664-96-9					EFSA
02.196	Octadecan- ol	112-92-5					EFSA
02.197	1,2,3,4,4a, 4b,9,9- Octahydro-2,5,5- trimethyl- naphthalen-2- ol	41699-19-3	10173				EFSA
02.198	Octane-1,3- diol	33433-05-8					EFSA
02.201	Pent-4- en-1-ol	821-09-0					EFSA
02.202	Pentadecan- ol	629-76-5					EFSA
02.203	2- Phenylpropan-2- ol	617-94-7	11704				EFSA
02.204	Phytol	150-86-7	1832	10302			EFSA
02.205	Piperonyl alcohol	495-76-1		10306			EFSA
02.206	(-)- Sclareol	515-03-7		10311			EFSA
02.207	Thujyl alcohol	21653-20-3	865				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

02.209	3,3,5-Trimethylcyclohexan-1-ol	116-02-9	1099					EFSA
02.210	Undec-2-en-1-ol	37617-03	1384				2	EFSA
02.211	Undeca-1,5-dien-3-ol	6722-23-7					1	EFSA
02.213	Vanillyl alcohol	498-00-0	886	690				EFSA
02.214	Vetiverol	89-88-3	1866	10321			2	EFSA
02.216	12-beta-Santalol	77-42-9		74			2	EFSA
02.217	12-alpha-Santalol	115-71-9		74			2	EFSA
02.219	2,6-Dimethyl-2-heptanol	13254-34-7						EFSA
02.222	3-Pentenol-1	39161-19-8		10298				EFSA
02.224	3-(1-Menthoxy)propane-1,2-diol	87061-04-9	1408					EFSA
02.226	[S-(cis)]-3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol	142-50-7		67				EFSA
02.229	(-)-3,7-Dimethyl-6-octen-1-ol	7540-51-4			At least 90% cis-isomer; secondary components 2-6% di-unsaturated and saturated C10 alcohols, 2-4% citronellyl acetate and		1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					2-3% citronella		
02.230	Terpineol	8000-41-7			Sum of isomers: 91-99 %. Relative contribution of each isomer: 55-75% alpha, 16-23% gamma, 1-10% cis-beta, 1-13% trans-beta, 0-1% delta		EFSA
02.231	trans-2, cis-6-Nonadien-1-ol	28069-72-9				2	EFSA
02.234	(Z)-Non-3-en-1-ol	10340-23-5	10293				EFSA
02.242	2-Butoxyethan-1-ol	111-76-2	10182				EFSA
02.243	(E,Z)-3,6-Nonadien-1-ol	56805-23-3	3284		At least 92%; secondary component 6% (E,E)-3,6-nonadien-1-ol		EFSA
02.245	2,3,4-Trimethyl-3-pentanol	3054-92-0	1643				EFSA
02.246	p-Menthane-3,8-diol	42822-86-6	6416				EFSA
02.247	l-Menthoxyethanol	38618-23-4	4853				EFSA
02.248	Vanillin 3-(l-	180964-4	71879				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	menthoxy)propane-1,2-diol acetal							
02.249	(4Z)-Hepten-1-ol	6191-71-5	1280					EFSA
02.250	2,4,8-Trimethyl-7-nonen-2-ol	437770-281	644					EFSA
02.251	2,4,8-Trimethyl-3,7-nonadien-2-ol	479547-571	645					EFSA
02.252	4,8-Dimethyl-3,7-nonadien-2-ol	67845-50-5	841				1	EFSA
02.253	2,4-Dimethyl-4-nonanol	74356-31-3	850					EFSA
02.254	(1R, 2S, 5S)-3-Menthoxy-2-methylpropane-1,2-diol	195863-841	411					EFSA
02.255	(Z)-4-Hepten-2-ol	66642-85-1			At least 91%; secondary components (E)-4-hepten-2-ol (4-5%), 2-heptanol (up to 1%), trans-3-hepten-2-ol (up to 1%) cis-3-hepten-2-ol (up to 1%).			EFSA
03.001	1,8-Cineole	470-82-6	1234	182				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

03.003	Benzyl ethyl ether	539-30-0	1252	521				EFSA
03.004	Dibenzyl ether	103-50-4	1256	11856				EFSA
03.005	2-Butyl ethyl ether	2679-87-0	1231	10911				EFSA
03.006	2-Methoxyethyl benzene	3558-60-9	1254	11812				EFSA
03.007	1,4-Cineole	470-67-7	1233	11225	At least 75%; secondary component 20-25% 1,8-cineole.			EFSA
03.008	2-Acetoxy-1,8-cineole	57709-95-2						EFSA
03.010	Benzyl butyl ether	588-67-0	1253	520	At least 93%; secondary component 2-5% benzyl alcohol			EFSA
03.011	Benzyl methyl ether	538-86-3		10910				EFSA
03.012	Benzyl octyl ether	54852-64-1						EFSA
03.015	Ethyl geranyl ether	40267-72-9						EFSA
03.016	Hexyl methyl ether	4747-07-3						EFSA
03.019	Prenyl ethyl ether	22094-00-4	232					EFSA
03.020	alpha-Terpinyl	14576-08-0						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methyl ether						
03.022	1-Methoxy-1-decene	79930-37-3802					EFSA
03.023	1-Ethoxyethyl acetate	1608-72-6					EFSA
03.024	Digeranyl ether	31147-36-1					EFSA
04.002	6-Ethoxyprop-3-enylphenol	94-86-0	1264	170			EFSA
04.003	Eugenol	97-53-0	1529	171			EFSA
04.004	Isoeugenol	97-54-1	1260	172			EFSA
04.005	2-Methoxyphenol	90-05-1	713	173			EFSA
04.006	Thymol	89-83-8	709	174			EFSA
04.007	2-Methoxy-4-methylphenol	93-51-6	715	175			EFSA
04.008	4-Ethylguaiacol	2785-89-9716		176			EFSA
04.009	2-Methoxy-4-vinylphenol	7786-61-0725		177			EFSA
04.010	1-Methoxy-4-(prop-1(trans)-enyl)benzene	4180-23-8217		183			JECFA
04.013	1,2-Dimethoxy-4-(prop-1-enyl)benzene	93-16-3	1266	186			EFSA
04.014	1-Methoxy-2-methylbenzene	578-58-5	1242	187			EFSA
04.015	1-Methoxy-4-methylbenzene	104-93-8	1243	188			EFSA
04.016	1,3-Dimethoxybenzene	151-10-0	1249	189			EFSA
04.017	1-Ethoxy-2-	7784-67-01267		190			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methoxy-4-(prop-1-enyl)benzene						
04.018	Benzyl isoeugenyl ether	120-11-6	1268	522			EFSA
04.019	2,5-Dimethylphenol	95-87-4	706	537			EFSA
04.020	3,5-Dimethylphenol	108-68-9		538			EFSA
04.021	3-Ethylphenol	620-17-7		549			EFSA
04.022	4-Ethylphenol	123-07-9	694	550			EFSA
04.026	3-Methylphenol	108-39-4	692	617			EFSA
04.027	2-Methylphenol	95-48-7	691	618			EFSA
04.028	4-Methylphenol	106-44-5	693	619			EFSA
04.029	Benzene-1,2-diol	120-80-9		680			SCF/CoE
04.031	Carvacrol	499-75-2	710	2055			EFSA
04.032	Anisole	100-66-3	1241	2056			EFSA
04.033	beta-Naphthyl ethyl ether	93-18-5	1258	2058			EFSA
04.034	1,4-Dimethoxybenzene	150-78-7	1250	2059			EFSA
04.035	Diphenyl ether	101-84-8	1255	2201			EFSA
04.036	2,6-Dimethoxyphenol	91-10-1	721	2233			EFSA
04.037	4-Ethoxyphenol	622-62-8	720	2258			EFSA
04.038	Carvacryl ethyl ether	4732-13-2	1247	11840			EFSA
04.039	1-Methoxy-4-propylbenzene	104-45-0	1244	11835			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

04.040	1,2-Dimethoxy-4-vinylbenzene	6380-23-0	1251	11228				EFSA
04.041	Phenol	108-95-2	690	11811				EFSA
04.042	2,6-Dimethylphenol	576-26-1	707	11261				EFSA
04.043	1-Isopropyl-2-methoxy-4-methylbenzene	1076-56-8	1246	11245				EFSA
04.044	2-Isopropylphenol	88-69-7	697	11234				EFSA
04.045	2-(Ethoxymethyl)phenol	20920-83-6	714	11905				EFSA
04.046	2-Propylphenol	644-35-9	695	11908				EFSA
04.047	Benzene-1,3-diol	108-46-3	712	11250				EFSA
04.048	3,4-Dimethylphenol	95-65-8	708	11262				EFSA
04.049	2-Methoxy-4-propylphenol	2785-87-7	717					EFSA
04.050	4-Propylphenol	645-56-7	696					EFSA
04.051	4-Allyl-2,6-dimethoxyphenol	6627-88-9	726	11214				EFSA
04.052	4-Ethyl-2,6-dimethoxyphenol	14059-92-8	823	11231				EFSA
04.053	4-Methyl-2,6-dimethoxyphenol	6638-05-7	722					EFSA
04.054	Isobutyl beta-naphthyl ether	2173-57-1	1259	11886				EFSA
04.055	2,6-Dimethoxy-4-prop-1-enylphenol	20675-95-0	265					EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

04.056	2,6-Dimethoxy-4-propylphenol	6766-82-1724					EFSA
04.057	4-Vinylphenol	2628-17-3711		11257			EFSA
04.058	4-Allylphenol	501-92-8	1527	11218			EFSA
04.059	Carvacryl methyl ether	6379-73-3		11224			EFSA
04.061	2,6-Dimethoxy-4-vinylphenol	28343-22-8		11229			EFSA
04.062	1,2-Dimethoxybenzene	91-16-7	1248	10320			EFSA
04.063	1,3-Dimethyl-4-methoxybenzene	6738-23-4	1245				EFSA
04.064	4-(1,1-Dimethylethyl)phenol	98-54-4	733				EFSA
04.065	2,3-Dimethylphenol	526-75-0		11258			EFSA
04.066	2,4-Dimethylphenol	105-67-9		11259			EFSA
04.067	1-Ethoxy-2-methoxybenzene	17600-72-5					EFSA
04.068	1-Ethoxy-4-methoxybenzene	5076-72-2					EFSA
04.069	1-Ethyl-4-methoxybenzene	1515-95-3					EFSA
04.070	2-Ethylphenol	90-00-6		11232			EFSA
04.072	3-Isopropylphenol	618-45-1					EFSA
04.073	4-Isopropylphenol	99-89-8					EFSA
04.074	2-Methoxynaphthalene	93-04-9	1257				EFSA
04.075	1-Methoxynaphthalene	2216-69-5					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

04.076	3-Methoxyphenol	150-19-6					EFSA
04.077	4-Methoxyphenol	150-76-5		11241			EFSA
04.078	5-Methyl-2-(tert-butyl)phenol	88-60-8					EFSA
04.079	Methyl 4-methoxybenzyl ether	1515-81-7					EFSA
04.084	1,2,3-Trimethoxybenzene	634-36-6					EFSA
04.085	2,3,6-Trimethylphenol	2416-94-6	6737				EFSA
04.088	1-Methoxy-4-(1-propenyl)benzene	104-46-1		183			CoE
04.091	Ethyl 4-hydroxybenzyl ether	57726-26-8					EFSA
04.092	4-Hydroxybenzyl methyl ether	5355-17-9					EFSA
04.093	Butyl vanillyl ether	82654-98-8	888				EFSA
04.094	Ethyl 4-hydroxy-3-methoxybenzyl ether	13184-86-8	887				EFSA
04.095	2,4,6-Trimethylphenol	527-60-6					EFSA
04.096	2-Methoxy-6-(2-propenyl)phenol	579-60-2	1528				EFSA
04.097	4-Prop-1-enylphenol	539-12-8					EFSA
05.001	Acetaldehyde	75-07-0	80	89			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.002	Propanal	123-38-6	83	90			JECFA
05.003	Butanal	123-72-8	86	91			JECFA
05.004	2-Methylpropanal	78-84-2	252	92			JECFA
05.005	Pentanal	110-62-3	89	93			JECFA
05.006	3-Methylbutanal	590-86-3	258	94			JECFA
05.007	2-Ethylbutanal	97-96-1	256	95			JECFA
05.008	Hexanal	66-25-1	92	96			JECFA
05.009	Octanal	124-13-0	98	97	At least 92%; secondary component 4-7% 2-methylheptanal		JECFA
05.010	Decanal	112-31-2	104	98	At least 92%; secondary component 4-7% 2-methylnonanal		JECFA
05.011	Dodecanal	112-54-9	110	99	At least 92%; secondary components 3-6% tetradecanal; 2-5% decanal; 1-2% hexadecanal		JECFA
05.012	3,7-Dimethyl-7-hydroxyoctanal	107-75-5	611	100			JECFA
05.013	Benzaldehyde	100-52-7	22	101			EFSA
05.014	Cinnamaldehyde	104-65-2	656	102			EFSA
05.015	4-Methoxybenzaldehyde	123-11-5	878	103			EFSA
05.016	Piperonal	120-57-0	896	104			EFSA
05.017	Veratraldehyde	120-14-9	877	106			EFSA
05.018	Vanillin	121-33-5	889	107			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.019	Ethyl vanillin	121-32-4	893	108				EFSA
05.020	Citral	5392-40-5	1225	109				EFSA
05.021	Citronellal	106-23-0	1220	110	At least 85%; secondary components 12-14% mixture of terpenoid materials (mainly 1,8-cineole, 2-isopropylidene-5-methylcyclohexanol, linalool, citronellyl acetate and other naturally occurring terpenes)			EFSA
05.022	4-Isopropylbenzaldehyde	122-03-2	868	111				EFSA
05.023	2,6-Dimethyloctanal	7779-07-9	273	112				JECFA
05.024	2-Methyloctanal	7786-29-0	270	113				JECFA
05.025	Nonanal	124-19-6	101	114	At least 92%; secondary component 4-8% 2-methyloctanal			JECFA
05.026	o-Tolualdehyde	529-20-4					1	EFSA
05.027	Tolualdehyde	123-47-8	7866	115	At least 95% (sum of o,m,p-isomers)			EFSA
05.028	m-Tolualdehyde	620-23-5					1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.029	p-Tolualdehyde	104-87-0					1	EFSA
05.030	Phenylacetaldehyde	122-78-6	1002	116				EFSA
05.031	Heptanal	111-71-7	95	117	At least 92%; secondary component 4-7% 2-methylhexanal			EFSA
05.032	Tetradecanal	124-25-4	112	118	At least 85%; secondary components 10-12% dodecanal, hexadecanal, and octadecanal			JECFA
05.033	2-Ethylhept-2-enal	10031-88-6	1216	120			1	EFSA
05.034	Undecanal	112-44-7	107	121	At least 92%; secondary component 4-8% 2-methyldecanal			JECFA
05.035	Undec-10-enal	112-45-8	330	122				JECFA
05.036	Undec-9-enal	143-14-6	329	123				JECFA
05.037	2-Dodecenal	4826-62-4	1350	124	At least 93%; secondary component 3-4% 2-dodecenoic acid		2	EFSA
05.038	2-Phenylpropanal	93-53-8	1467	126				EFSA
05.039	alpha-Butylcinnamaldehyde	7492-44-6	684	127				EFSA
05.040	alpha-Pentylcinnamaldehyde	122-40-7	685	128				EFSA
05.041	alpha-Hexylcinnamaldehyde	101-86-0	686	129				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.042	p-Tolylacetaldehyde	104-09-6	1023	130				EFSA
05.043	2-(p-Tolyl)propionaldehyde	99-72-9	1471	131				EFSA
05.044	p-Isopropyl phenylacetaldehyde	4395-92-0	1024	132				EFSA
05.045	3-(p-Cumenyl)-2-methylpropionaldehyde	103-95-7	1465	133	At least 90%; secondary component 5% 3-(p-cumenyl)-2-methylpropionic acid			EFSA
05.046	2-Methyl-4-phenylbutyraldehyde	40654-82-8	1462	134				EFSA
05.047	4-Hydroxybenzaldehyde	123-08-0	956	558				EFSA
05.048	2-Methoxycinnamaldehyde	1504-74-1	1688	571	At least 94%; secondary component 3% o-methoxycinnamic acid			EFSA
05.049	2-Methylbutyraldehyde	96-17-3	254	575				JECFA
05.050	alpha-Methylcinnamaldehyde	101-39-3	683	578				EFSA
05.051	3-(4-Methoxyphenyl)-2-methylprop-2-enal	65405-67-6	689	584				EFSA
05.052	2-Methyl-3-(p-tolyl)propionaldehyde	41496-43-9	1466	587				EFSA
05.053	2,4,6-Trimethyl-1,3,5-trioxane	123-63-7		594				SCF/CoE
05.055	Salicylaldehyde	90-02-8	897	605				EFSA
05.056	4-Ethoxybenzaldehyde	10031-82-8	879	626				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.057	Hexa-2( <del>trans</del> )-4( <del>trans</del> )-dienal	4243-175	640			2	EFSA
05.058	Nona-2( <del>trans</del> )-6( <del>cis</del> )-dienal	557-1186	659	At least 92%; secondary component 4-7% (E,E)-2,6-nonadienal		2	EFSA
05.059	Non-6( <del>cis</del> )-enal	2277-19-2325	661	At least 90%; secondary component 6-9% trans-6-nonenal			JECFA
05.060	Oct-2-enal	2363-89-51363	663	At least 92%; secondary components 3-4% 2-octenoic acid and ethyl octanoate		2	EFSA
05.061	Oct-6-enal	63826-25-5	664				EFSA
05.062	2-Phenylcrotonaldehyde	4411-89-61474	670			2	EFSA
05.064	Trideca-2( <del>trans</del> )-4( <del>cis</del> )-trienal	12524-9178	685	At least 71%; secondary components 14% 4-cis-7-cis-tridecadienol; 6% 3-cis-7-cis-tridecadienol; 5% 2-trans-7-cis-tridecadienal; 3% 2-trans-4-trans-7-		2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					cis-tridecatrienal		
05.066	4-Ethoxy-3-methoxybenzaldehyde	120-25-2		703			EFSA
05.068	4-Ethylbenzaldehyde	4748-78-1865		705			EFSA
05.069	2-Methylpentanal	123-15-9	260	706			JECFA
05.070	2-Heptenal	2463-63-0	1360	730		2	SCF/CoE
05.071	Nona-2,4-dienal	6750-03-4	1185	732	At least 89%; secondary components 5-6% 2,4-nonadien-1-ol and 1-2% 2-nonen-1-ol	2	EFSA
05.072	trans-2-Nonenal	18829-56-6		733	At least 92%; secondary component 3-4% 2-nonenic acid	2	CoE
05.073	Hex-2(trans)-enal	6728-26-3	1353	748	At least 92%; secondary component 3-4% 2-hexenoic acid	2	CoE
05.074	2,6-Dimethylhept-5-enal	106-72-9	349	2006	At least 85%; secondary components 9-10% 6-methyl-5-hepten-2-one; 1-2% 2,6-		JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					dimethyl-6-heptenal		
05.075	Hex-3(cis)-enal	6789-80-6316		2008			JECFA
05.076	Dec-2-enal	3913-71-11349		2009	At least 92%; secondary components 3-4% 2-decenoic acid	2	EFSA
05.077	2-Methylundecanal	110-41-8275		2010			JECFA
05.078	Tridec-2-enal	7774-82-51359		2011	At least 92%; secondary components 3-4% 2-tridecenoic acid	2	EFSA
05.079	Citronellyloxyacetaldehyde	17492-67-3592		2012	At least 75%; secondary components 20-21% geranyloxyacetaldehyde; 1-2% citronellol		EFSA
05.080	3-Phenylpropanal	104-53-0645		2013			EFSA
05.081	2,4-Decadienal	2363-88-4			At least 89%; secondary components mixture of the (cis, cis)-; (cis, trans)- and (trans, cis)-2,4-decadienals (sum of all isomers 95%);	2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					acetone and isopropanol		
05.082	(Z,Z)-3,6-Dodecadienal	13553-09-8		2121			EFSA
05.084	Hepta-2,4-dienal	4313-03-5	1179	729	At least 92%; secondary components 2-4% (E,Z)-2,4-heptadienal and 2-4% 2,4-heptadienoic acid	2	EFSA
05.085	Hept-4-enal	6728-31-0	320	2124			JECFA
05.090	2-Methylpent-2-enal	623-36-9	1209	2129	At least 92%; secondary components 1.5-2.5% propionaldehyde and 3.5-4.5% propionic acid	1	EFSA
05.091	2-Hydroxy-4-methylbenzaldehyde	698-27-1	898	2130			EFSA
05.094	3-(4-Isopropylphenyl)propionaldehyde	7775-00-0	680	2261	85-90% p-isomer and 5-10% o-isomer		EFSA
05.095	2-Methylcrotonaldehyde	497-03-0	1201	2281		1	EFSA
05.096	4-Decenal	30390-50-3	26	2297			JECFA
05.097	3-Methyl-2-phenylbutyraldehyde	2439-44-3	1463	135			EFSA
05.098	p-Menth-1-en-9-al	29548-14-9	971	10347			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.099	5-Methyl-2-phenylhex-2-enal	21834-92-4	4472	10365			2	EFSA
05.100	4-Methyl-2-phenylpent-2-enal	26643-91-4	4473	10366			2	EFSA
05.101	Penta-2,4-dienal	764-40-9	1173	11695			2	EFSA
05.102	Pent-2-enal	764-39-6	1364	10375			2	EFSA
05.103	3-Phenylpent-4-enal	939-21-9	679	10378				EFSA
05.104	2,6,6-Trimethylcyclohexa-1,3-diene-1-carbaldehyde	116-26-7	977	10383				EFSA
05.105	2-Butylbut-2-enal	25409-08-9	214	10324			1	EFSA
05.106	Myrtenal	564-94-3	980	10379			2	EFSA
05.107	2-Isopropyl-5-methylhex-2-enal	35158-25-9	215	10361			1	EFSA
05.108	Undeca-2,4-dienal	43162-46-4	4195	10385			2	EFSA
05.109	2-Undecenal	2463-77-6	1366	11827			2	EFSA
05.110	2,4-Dimethylbenzaldehyde	15764-16-8	669					EFSA
05.111	Octa-2( <del>trans</del> ),6( <del>trans</del> )-dienal	56767-18-1	182	10371			2	EFSA
05.112	2,6,6-Trimethylcyclohex-1-en-1-acetaldehyde	472-66-2	978	10338	At least 92%; secondary components 2-3% beta-cyclocitral; 0.5-1% beta-ionone; 2-4%			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					methyl beta- homocyclogeranate; 0.6-1% ethyl beta- homocyclogeranate		
05.113	Hex-4- enal	4634-89-3319	10337				JECFA
05.114	4- Methylpent-2- enal	5362-56-11208	10364			2	EFSA
05.115	2- Phenylpent-4- enal	24401-36-3476	10377				EFSA
05.116	3,5,5- Trimethylhexanal	5435-64-3269	10384				JECFA
05.117	p- Mentha-1,8- dien-7- al	2111-75-3973	11788			2	EFSA
05.118	4- Methoxycinnamaldehyde	1963-36-6687	11919				EFSA
05.119	(1R) 2,2,3- Trimethylcyclopent-3- en-1-yl acetaldehyde	4501-58-0967	10325				EFSA
05.120	Dodeca-2, dienal	41662-13-5197				2	EFSA
05.121	2,6,6- Trimethyl-1- cyclohexen-1- carboxaldehyde	432-25-7979	2133			2	EFSA
05.122	p- Methylcinnamaldehyde	1504-75-2682	10352				EFSA
05.123	(1R,2R,5S) 5- Isopropenyl-2- methylcyclopentanecarboxaldehyde	55253-28-068					EFSA
05.124	3- Methylcrotonaldehyde	107-86-81202	10354				EFSA
05.125	Dodeca-2, dienal	41662-16-8196	11758	At least 85%; secondary component		2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					11-12% 2- trans-4- cis isomer		
05.126	2- Methyloct-2- enal	49576-57-0217	10363			1	EFSA
05.127	Octa-2(trans)-6(trans)- dienal	30341-28-1181	11805			2	EFSA
05.128	Oct-5(cis)- enal	41547-22-323			At least 85%; secondary component 10-15% trans-5- octenal		JECFA
05.129	2- Methoxybenzaldehyde	135-02-4	10350				EFSA
05.134	2- Methyl-3- tolylpropionaldehyde (mixed o,m,p-)		587		At least 95% (sum of isomers p-80%; o-10%; m-5% )		CoE
05.137	Dec-4(cis)- enal	21662-09-9			At least 90%; secondary component at least 5% trans- isomer	1	EFSA
05.139	Dec-9- enal	39770-05-3286					EFSA
05.140	Deca-2(trans)-4(trans)- dienal	25142-84-1190	2120		At least 89%; secondary components 3-4% mixture of ( cis- cis)-; (cis- trans)- and (trans-	2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					cis)- 2,4- decadienals; 3-4% acetone and trace of isopropanol		
05.141	Deca-2,4, trienal	751325-37-1786				2	EFSA
05.142	3,4- Dihydroxybenzaldehyde	139-85-5	10328				EFSA
05.143	2,5- Dimethyl-2- vinylhex-4- enal	56134-05-5					EFSA
05.144	Dodec-2( enal	20407-84-5			At least 93%; secondary component 2-3% 2- dodecenoic acid	2	EFSA
05.147	2- Ethylhexanal	123-05-7	10331				EFSA
05.148	Farnesal	19317-11-4228					EFSA
05.149	Glutaraldehyde	108-30-8					EFSA
05.150	Hept-2( enal	18829-55-1360	730			2	EFSA
05.152	Hexadecanal	619-80-1	10336				EFSA
05.153	4- Hydroxy-3,5- dimethoxybenzaldehyde	134-96-3 1878	10340				EFSA
05.154	(E)-4- Hydroxy-3,5- dimethoxycinnamaldehyde	4206-58-0	10341				EFSA
05.155	4- Hydroxy-3- methoxycinnamaldehyde (mixture of isomers)	458-36-6	10342				EFSA
05.156	3-(4- Hydroxy-3- methoxyphenyl)propanal	80638-48-8					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.157	Isocyclocitral	315-66-6						EFSA
05.158	3-Methoxybenzaldehyde	591-31-1	10351					EFSA
05.159	p-Methoxyphenylacetaldehyde	5703-26-4						EFSA
05.160	2-Methyldecanal	19009-56-4						EFSA
05.164	2-Methylhexanal	925-54-2						EFSA
05.166	4-Methylpentanal	1119-16-0	10369					EFSA
05.167	12-Methyltetradecanal	75853-50-8						EFSA
05.169	12-Methyltridecanal	75853-49-5	2229					EFSA
05.170	Neral	106-26-3					1	EFSA
05.171	Non-2-enal	2463-53-8	1362	733	At least 92%; secondary component 3-4% 2-nonenic acid		2	EFSA
05.172	Nona-2,7-dienal (trans,trans)	17587-33-0	1187				2	EFSA
05.173	Nona-2,4,6-trienal	67018-53-8	8785				2	EFSA
05.174	Pent-4-enal	2100-17-6	1619					EFSA
05.175	2-Phenylpent-2-enal	3491-63-2					2	EFSA
05.179	(E)-Tetradec-2-enal	51534-36-2	1803				2	EFSA
05.182	2,6,6-Trimethylcyclohex-2-ene-1-carboxaldehyde	432-24-6					1	EFSA
05.183	4-(2,6,6-Trimethylcyclohexenyl)-2-methylbutanal	73398-85-3						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.184	Undec-2(153418-07-0) enal					2	EFSA
05.186	2,4- Octadienal	5577-44-6				2	EFSA
05.188	trans-3,7- Dimethylocta-2,6- dienal	141-27-5				1	EFSA
05.189	2- Hexenal	505-57-7			At least 92%; secondary component 3-4% 2- hexenoic acid	2	EFSA
05.190	trans-2- Octenal	2548-87-0			At least 92%; secondary components 3-4% 2- octenoic acid and ethyl octanoate	2	EFSA
05.191	trans-2- Decenal	3913-81-3			At least 92%; secondary component 3-4% 2- decenoic acid	2	EFSA
05.192	3- Hexenal	4440-65-71271			At least 80% (total of cis- and trans- isomers); secondary component 18-20% trans-2- hexenal.		EFSA
05.194	tr-2, tr-4- Nonadienal	5910-87-2			At least 89%; secondary components at least 5% 2,4- nonadien-1- ol and 2-	2	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					nonen-1-ol and other isomers of 2,4-nonadienal		
05.195	trans-2-Tridecenal	7069-41-2			At least 92%; secondary components 2-5% 2-tridecenoic acid and 3-5% cis-2-tridecenal	2	EFSA
05.196	tr-2, tr-4-Undecadienal	30361-29-6	10385			2	EFSA
05.198	3-Butenal, 2-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	58102-02-6					EFSA
05.203	9-Octadecenal	5090-41-5	1641				EFSA
05.208	Z-8-Tetradecenal	169054-6917	40				EFSA
05.211	6-Methyloctanal	30689-75-9					EFSA
05.217	(Z)-5-Decenal	21662-08-8					EFSA
05.218	16-Octadecenal	56554-87-1					EFSA
05.219	3-Methylhexanal	19269-28-4					EFSA
05.220	4Z-Dodecenal	21944-98-9	636		At least 94% of (4Z)-dodecenal; secondary component 3-4% dodecanal		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

05.221	6,6'-Dihydroxy-5,5'-dimethoxy-biphenyl-3,3'-dicarbaldehyde	2092-49-11881					EFSA
05.222	2-Phenyl-4-methyl-2-hexenal	26643-92-5				2	EFSA
05.223	4-Ethyl-octanal	58475-04-0819					EFSA
05.224	(4E)-hexenal	25166-87-4622					EFSA
05.225	6-Methylheptanal	63885-09-6					EFSA
05.226	E-4-Undecenal	68820-35-9					EFSA
06.001	1,1-Diethoxyethane	105-57-7 941	35				EFSA
06.002	5-Hydroxy-2-phenyl-1,3-dioxane	1708-40-3838	36	At least 98% (sum of 5-hydroxy-2-phenyl-1,3-dioxane and 2-phenyl-4-hydroxymethyl-1,3-dioxalane)			EFSA
06.003	alpha,alpha-Dimethoxytoluene	1125-88-8837	37				EFSA
06.004	Citral diethyl acetal	7492-66-2948	38	At least 98% (sum of isomers + hemiacetals + citral)			EFSA
06.005	Citral dimethyl acetal	7549-37-3944	39	At least 98% (sum of isomers + hemiacetals + citral)			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.006	1,1-Dimethoxy-2-phenylethane	101-48-4	1003	40				EFSA
06.007	Phenylacetone glyceryl acetal	20895-73-6	1004	41	57% 5-hydroxymethyl-2-phenyl-1,3-dioxolan; 38% 5-hydroxy-2-phenyl-1,3-dioxan			EFSA
06.008	1,1-Dimethoxyoctane	10022-28-9	942	42				EFSA
06.009	1,1-dimethoxydecane	7779-41-1	1945	43				EFSA
06.010	1,1-Diethoxy-3,7-dimethyloctan-7-ol	7779-94-4	613	44				JECFA
06.011	1,1-Dimethoxy-3,7-dimethyloctan-7-ol	141-92-4	612	45				JECFA
06.012	Tolualdehyde glyceryl acetal	1833-09-1	1867	46	40% 5-hydroxydioxane; 60% 5-hydroxymethyldioxalane			EFSA
06.013	alpha-Pentylcinnamaldehyde dimethyl acetal	91-87-2	681	47				EFSA
06.014	Cinnamaldehyde ethylene glycol acetal	5560-60-6	6648	48				EFSA
06.015	1,1-Dimethoxyethane	534-15-6	940	510				EFSA
06.016	1-Phenylethoxy-1-propoxy ethane	7493-57-4	1000	511				EFSA
06.017	(Diethoxymethyl)benzene	77448		517				EFSA
06.019	1-Benzyloxy-1-(2-methoxyethoxy)ethane	7492-39-9	9840	523				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.020	1,1-Diethoxydecane	34764-02-8		531				SCF/CoE
06.021	1,1-Diethoxyheptane	688-82-4		553				SCF/CoE
06.023	1,1-Diethoxyhexane	3658-93-3		557				SCF/CoE
06.024	1,1-Diisobutoxy-2-phenylethane	68345-22-1	1006	595				EFSA
06.025	1,1-Diethoxynona-2,6-diene	67674-36-0	046	660			2	EFSA
06.027	4,5-Dimethyl-2-benzyl-1,3-dioxolan	5468-06-4	1005	669	At least 93%; secondary component 2-3% butane-2,3-diol			EFSA
06.028	1,1-Dimethoxyheptane	10032-05-0	047	2015				EFSA
06.029	Heptanal glyceryl acetal (mixed 1,2 and 1,3 acetals)	72854-42-9	912	2016	Mixture of acetals (56-58% dioxolane; 37-39% dioxane) and 1-2% unreacted heptanal			EFSA
06.030	1,1-Dimethoxy-2-phenylpropane	90-87-9	1468	2017				EFSA
06.031	1,1-Diethoxyhex-2-ene	54306-00-2	1383	2135			2	EFSA
06.032	4-Methyl-2-phenyl-1,3-dioxolane	2568-25-4	4839	2226				EFSA
06.033	1,1-Dibutoxyethane	871-22-7		2341				SCF/CoE
06.034	1,1-Dipropoxyethane	105-82-8		2342				SCF/CoE

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

06.035	Citral propylene glycol acetal	10444-50-5	2343				SCF/CoE
06.036	1-Butoxy-1-(2-phenylethoxy)ethane	64577-91-9	10007				EFSA
06.037	1,1-Diethoxyhept-4-ene (cis and trans)	1192738-4849	10011				EFSA
06.038	4,4-Dimethoxybutan-2-one	5436-21-5	10029				JECFA
06.039	1,2-Di((1'-ethoxy)-ethoxy)propane	67715-79-9					EFSA
06.040	1,2,3-Tris([1'-ethoxy]-ethoxy)propane	67715-82-0	11930				EFSA
06.041	1-Isobutoxy-1-ethoxy-2-methylpropane		10055				EFSA
06.042	1-Isobutoxy-1-ethoxy-3-methylbutane	85136-40-9	10057				EFSA
06.043	1-Isoamyloxy-1-ethoxypropane	238757-30-7	10038				EFSA
06.044	1-Isobutoxy-1-ethoxypropane	67234-04-2	10058				EFSA
06.045	1-Isobutoxy-1-isopentyloxy-2-methylpropane		10061				EFSA
06.046	1-Isobutoxy-1-isopentyloxy-3-methylbutane		10060				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.047	1-Isopentyloxy-1-propoxyethane	238757-63-6	10065				EFSA
06.048	1-Isopentyloxy-1-propoxypropane	238757-65-8	10066				EFSA
06.049	1-Butoxy-1-(2-methylbutoxy)ethane	77249-20-8					EFSA
06.050	1-Butoxy-1-ethoxyethane	57006-87-8	10003				EFSA
06.051	1,1-Di-(2-methylbutoxy)ethane	13535-43-8					EFSA
06.052	1,1-Di-isobutoxy-2-methylpropane	13262-24-3	10025				EFSA
06.053	1,1-Di-isobutoxyethane	5669-09-0	10023				EFSA
06.054	1,1-Di-isobutoxypentane	13262-27-6	10026				EFSA
06.055	1,1-Di-isopentyloxyethane	13002-09-0729	10028				EFSA
06.057	1,1-Diethoxy-2-methylbutane	3658-94-4	10013				EFSA
06.058	1,1-Diethoxy-2-methylpropane	1741-41-9	10015				EFSA
06.059	1,1-Diethoxy-3-methylbutane	3842-03-31730	10014				EFSA
06.061	1,1-Diethoxybutane	3658-95-5	10009				EFSA
06.062	1,1-Diethoxydodecane	53405-98-4					EFSA
06.063	(Z)-1,1-diethoxyhex-3-ene	73545-18-3					EFSA
06.064	Diethoxymethane	46195-3	10012				EFSA
06.065	1,1-Diethoxynonane	54815-13-3	10016				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.066	1,1-Diethoxyoctane	54889-48-4					EFSA
06.067	1,1-Diethoxypentane	3658-79-5	10017				EFSA
06.069	1,1-Diethoxypropane	4744-08-5	10018				EFSA
06.070	1,1-Diethoxyundecane	53405-97-3					EFSA
06.071	1,1-Dihexyloxyethane	5405-58-3	10022				EFSA
06.072	1,1-Dimethoxyhex-2(trans)-ene	18318-83-7	1728			2	EFSA
06.073	1,1-Dimethoxyhexane	1599-47-9					EFSA
06.074	Dimethoxybutane	10018-75-5	10031				EFSA
06.075	1,1-Dimethoxypentane	26450-58-8					EFSA
06.076	1,1-Dimethoxypropane	4744-10-9					EFSA
06.077	2,4-Dimethyl-1,3-dioxolane	3390-12-3	1711				EFSA
06.078	1,1-Diphenethoxyethane	122-71-4					EFSA
06.079	1-Ethoxy-1-(2-methylbutoxy)ethane	13602-09-0	10040				EFSA
06.080	1-Ethoxy-1-(2-phenylethoxy)ethane	2556-10-7	10049				EFSA
06.081	(Z)-1-Ethoxy-1-(3-hexenyloxy)ethane	28069-74-4	10034				EFSA
06.082	1-Ethoxy-1-hexyloxyethane	54484-73-0	11948				EFSA
06.083	1-Ethoxy-1-isopentyloxyethane	13442-90-5	10037				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.084	1-Ethoxy-1-methoxyethane	10471-14-4	10039				EFSA
06.085	1-Ethoxy-1-pentyloxyethane	13442-89-2	10046				EFSA
06.086	1-Ethoxy-1-propoxyethane	20680-10-8	10050				EFSA
06.087	Ethyl 2,4-dimethyl-1,3-dioxolane-2-acetate	6290-17-11715					EFSA
06.088	2-Ethyl-4-methyl-1,3-dioxolane	4359-46-0					EFSA
06.089	2-Hexyl-4,5-dimethyl-1,3-dioxolane	6454-22-41712					EFSA
06.090	4-Hydroxymethyl-2-methyl-1,3-dioxolane	3773-93-1					EFSA
06.091	1-Isobutoxy-1-ethoxyethane	6986-51-2	10054				EFSA
06.092	1-Isobutoxy-1-isopentyloxyethane	75048-15-6	10059				EFSA
06.094	4-Methyl-2-pentyl-1,3-dioxolane	1599-49-1928					EFSA
06.095	4-Methyl-2-propyl-1,3-dioxolane	4352-99-2					EFSA
06.096	Triethoxyethane	1205-11-0	10903				EFSA
06.097	1,1,3-Triethoxypropane	7789-92-6	10075				EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.098	2,2,4-Trimethyl-1,3-dioxolane	1193-11-9929	11423				EFSA
06.100	1,1-Dipentyloxyethane	13002-08-9	10032				EFSA
06.102	2-Hexyl-5-hydroxy-1,3-dioxane	1708-36-7	2016				EFSA
06.104	Vanillin propylene glycol acetal	68527-74-1	1882				EFSA
06.105	3-Methyl-1,1-di-isopentyloxybutane	13285-51-3	10070				EFSA
06.106	2-Methyl-1,1-di-isopentyloxypropane	13112-63-5	10071				EFSA
06.107	1-(2-Methylbutoxy)-1-isopentyloxyethane	13548-84-0	10068				EFSA
06.109	8,8-Diethoxy-2,6-dimethyloct-2-ene	71662-17-4					EFSA
06.111	1-Ethoxy-1-methoxypropane	127248-84-4					EFSA
06.114	1-Hexyloxy-1-isopentyloxyethane	233665-90-2					EFSA
06.115	1-isopentyloxy-1-pentyloxyethane	13442-92-7					EFSA
06.120	DL-Menthone-glycerol ketal	63187-91-4	446				JECFA
06.123	1-Butoxy-1-isopentyloxyethane	238757-27-2	10004				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

06.124	1,1-Di-isobutoxy-3-methylbutane	13439-98-0	10024				EFSA
06.125	1,1-Di-isobutoxypropane	13002-11-4	10027				EFSA
06.128	1-Ethoxy-1-pentyloxybutane	3658-92-2	10045				EFSA
06.129	1-Ethoxy-2-methyl-1-isopentyloxypropane	253679-74-2	10043				EFSA
06.130	1-Ethoxy-2-methyl-1-propoxypropane	238757-42-1	10044				EFSA
06.131	1-Ethoxy-1-(3-methylbutoxy)-3-methylbutane	238757-35-2	10042				EFSA
06.132	Vanillin butan-2,3-diol acetal (mixture of stereo isomers)	63253-24-960					EFSA
06.133	1-Menthone-1,2-glycerol ketal	563187-91475					JECFA
06.135	2-Isobutyl-4-methyl-1,3-dioxolane	18433-93-7732					EFSA
06.136	6-Isopropyl-3,9-dimethyl-1,4-dioxyspiro[4.5]decan-2-one	831213-721859		Sum of isomers 98% with at least 60-70% (3S,5R,6S,9R)-6-isopropyl-3,9-dimethyl-1,4-			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					dioxyspiro[4.5]decan-2-one.			
06.137	Acetaldehyde ethyl isopropyl acetal	25334-93-4						EFSA
07.001	2-Oxopropanal	78-98-8	937	105				EFSA
07.002	Heptan-2-one	110-43-0	283	136				JECFA
07.003	Heptan-3-one	106-35-4	285	137				JECFA
07.004	Acetophenone	98-06-2	806	138				EFSA
07.005	Vanillyl acetone	122-48-5	730	139				EFSA
07.007	alpha-Ionone	127-41-3	388	141			2	JECFA/EFSA
07.008	beta-Ionone	14901-07-6	889	142			2	JECFA/EFSA
07.009	Methyl-alpha-ionone	7779-30-8	398	143	At least 90%; secondary component 5-6% methyl-beta-ionone		2	JECFA/EFSA
07.010	Methyl-beta-ionone	127-43-5	399	144	At least 88%; secondary component 7-10% alpha- and beta-isomethylionone		2	JECFA/EFSA
07.011	4-(2,5,6,6-Tetramethyl-2-cyclohexenyl)-3-buten-2-one	79-69-6	403	145			2	JECFA/EFSA
07.012	Carvone	99-49-0	380	146				SCF/CoE
07.013	Methyl 2-	93-08-3	811	147				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	naphthyl ketone							
07.014	Maltol	118-71-8	1480	148			2	EFSA
07.015	6-Methylhept-5-en-2-one	110-93-0	1120	149				EFSA
07.016	Undecan-2-one	212-12-9	296	150				JECFA
07.017	4-Methylpentan-2-one	108-10-1	301	151				JECFA
07.018	Hexan-2,3-dione	33848-24-6	412	152	At least 93%; secondary components 2-3% hexanediones			JECFA
07.019	Octan-2-one	111-13-7	288	153				JECFA
07.020	Nonan-2-one	821-55-6	292	154				JECFA
07.021	Undeca-2-dione	3493-59-6	417	155				JECFA
07.022	4-Methylacetophenone	122-00-9	807	156				EFSA
07.023	2,4-Dimethylacetophenone	89-74-7	809	157				EFSA
07.024	4-Phenylbut-3-en-2-one	122-57-6	820	158			2	EFSA
07.025	4-Methyl-1-phenylpentan-2-one	5349-62-2	828	159				EFSA
07.026	4-(p-Tolyl)butan-2-one	7774-79-0	817	160				EFSA
07.027	3-Methyl-4-phenylbut-3-en-2-one	1901-26-4	821	161			2	EFSA
07.028	Benzoin	119-53-9	836	162				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.029	4-(4-Methoxyphenyl)butan-2-one	104-20-1	818	163				EFSA
07.030	1-(4-Methoxyphenyl)pentan-3-one	104-27-8	826	164			2	EFSA
07.031	Piperonyl acetone	55418-52-5		165				SCF/CoE
07.032	Benzophenone	106-119-6	831	166				EFSA
07.033	Isojasmonolide	1050-62-7	115	167			2	EFSA
07.034	2-Hexylidene-cyclopentan-1-one	17373-89-6	106					EFSA
07.035	Tetramethyl-ethylcyclohexenone (mixture of isomers)	17369-60-7	111	168				EFSA
07.036	alpha-Isomethyl ionone	127-51-5	404	169			2	JECFA
07.038	4-Methoxyacetophenone	100-06-1	810	570				EFSA
07.040	1-Phenylpropan-1-one	93-55-0	824	599				EFSA
07.041	beta-Isomethyl ionone	79-89-0		650			2	EFSA
07.042	4-Isopropylacetophenone	645-13-6	808	651				EFSA
07.044	Pent-3-en-2-one	625-33-2	1124	666			1	EFSA
07.045	2,2,6-Trimethylcyclohexanone	2408-37-9	1108	686				EFSA
07.046	Vanillylidene acetone	1080-12-2	732	691			2	EFSA
07.047	Ethyl maltol	4940-11-8	1481	692				EFSA
07.048	4-Hexen-3-one	2497-21-4	1125	718			1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.049	1-(4-Methoxyphenyl)-4-methylpent-1-en-3-one	103-13-9	829	719			2	EFSA
07.050	Acetone	67-64-1	139	737				JECFA
07.051	3-Hydroxybutan-2-one	513-86-0	405	749				JECFA
07.052	Diacetyl	431-03-8	408	752				JECFA
07.053	Butan-2-one	78-93-3	278	753				JECFA
07.054	Pentan-2-one	107-87-9	279	754				JECFA
07.055	4-(p-Hydroxyphenyl)butan-2-one	5471-51-2	2728	755				EFSA
07.056	3-Methylcyclopentan-1,2-dione	80-71-7	418	758				JECFA
07.057	3-Ethylcyclopentan-1,2-dione	21835-01-8	419	759	At least 90%; secondary component 5-10% 3-ethylcyclopentan-1,2-dione (enolic form)			JECFA
07.058	Heptan-4-one	123-19-3	287	2034				JECFA
07.059	p-Menthan-3-one	10458-14-7					1	EFSA
07.060	Pentan-2,3-dione	3600-14-6	410	2039	At least 93%; secondary component 2-3% 2,5-diethylcyclohexadien-1,4-dione (dimer of 2,3-pentadione)			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

07.061	Allyl alpha- ionone	79-78-7	401	2040			2	JECFA/ EFSA
07.062	Octan-3- one	106-68-3	290	2042				JECFA
07.063	4- Methylpentan-2,3- dione	7493-58-5	411	2043				JECFA
07.064	Heptan-2,3- dione	306-04-8	415	2044				JECFA
07.065	5- Hydroxyoctan-4- one	496-77-5	416	2045				JECFA
07.067	2R,5S- isopulegone	29606-79-9	454	2051			4	EFSA
07.069	Tetrahydro pseudo- ionone	4433-36-7	1121	2053				EFSA
07.070	3- Benzylheptan-4- one	7492-37-7	7830	2140				EFSA
07.071	Octane-4,5- dione	5455-24-3		2141				EFSA
07.072	6- Methylheptan-3- one	624-42-0		2143				EFSA
07.075	3,4- Dimethylcyclopentan-1,2- dione	13494-06-9	420	2234				JECFA
07.076	3,5- Dimethylcyclopentan-1,2- dione	13494-07-0	421	2235				JECFA
07.077	Hexan-3,4- dione	4437-51-8	413	2255				JECFA
07.078	d,l- Isomenthone	491-07-6	430	2259				JECFA
07.079	1- Phenylpropan-1,2- dione	579-07-7	833	2275				EFSA
07.080	3- Methylcyclohexan-1,2- dione	3008-43-3	425	2311				JECFA
07.081	Oct-1- en-3-one	4312-99-6	1148	2312			1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.082	Oct-2-en-4-one	4643-27-0	1129	2313			1	EFSA
07.083	beta-Damascone	23726-92-3	384	2340	At least 90%; secondary components 5-8% alpha- and delta-damascone		2	JECFA/EFSA
07.084	Pentan-3-one	96-22-0		2350				EFSA
07.086	1,3-Diphenylpropan-2-one	102-04-5	832	11839				EFSA
07.087	4-Methoxyphenylacetone	122-84-9	813	11836				EFSA
07.088	Methyl-delta-ionone	7784-98-7	7400	11852			2	JECFA/EFSA
07.089	Nootkatone	4674-50-4	1398	11164	At least 93%; secondary component 3-4% dihydronootkatone		2	EFSA
07.090	1-Hydroxybutan-2-one	5077-67-8	1717	11102				EFSA
07.091	gamma-Ionone	79-76-5	390				2	JECFA/EFSA
07.092	p-Menthan-2-one	499-70-7	375	11128				JECFA
07.093	5-Methylhexan-2,3-dione	13706-86-0	14	11148				JECFA
07.094	3-Methyl-2-(pent-2(cis)-enyl)cyclopent-2-en-1-one	488-10-8	1114	11786			2	EFSA
07.095	2-(sec-Butyl)cyclohexanone	14765-30-1	1109	11044	At least 94%; secondary			EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					component 2-2.5% 2- isobutyl cyclohexanone			
07.096	Hexan-3-one	589-38-8	281	11097				JECFA
07.097	3-(Hydroxymethyl)octan-2-one	59191-78-5	1839	11113	At least 90%; secondary component 7% 3-methylene-2-octanone			EFSA
07.098	3-Methylcyclohex-2-en-1-one	1193-18-6	1107	11134				EFSA
07.099	6-Methylhepta-3,5-dien-2-one	1604-28-0	1134	11143			1	EFSA
07.100	5-Methylhex-5-en-2-one	3240-09-3	1119	11150				EFSA
07.101	4-Methylpent-3-en-2-one	141-79-7	1131	11853			1	EFSA
07.102	Pent-1-en-3-one	1629-58-9	1147	11179			1	EFSA
07.103	Tridecanone	2593-08-8	298	11194				JECFA
07.104	Hept-2-en-4-one	4643-25-8	1126	11093			1	EFSA
07.105	Hept-3-en-2-one	1119-44-4	1127	11094			1	EFSA
07.106	5-Methylhex-3-en-2-one	5166-53-0	1132	11149			1	EFSA
07.107	Oct-3-en-2-one	1669-44-9	1128	11170	At least 94%; secondary component 4-6% 4-octen-2-one		1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.108	beta-Damascenone	23696-85-387	11197			2	JECFA/EFSA
07.109	2,6,6-Trimethylcyclohex-2-en-1,4-dione	1125-21-91857	11200			2	EFSA
07.112	3-Methyl-2-cyclopenten-1-one	2758-18-11105	11137			2	EFSA
07.113	Nonan-3-one	925-78-0 294	11160				JECFA
07.114	6,10,14-Trimethylpentadeca-5,9,13-trien-2-one	762-29-8 1123	11206				EFSA
07.115	3,4-Dehydrodihydro-beta-ionone	20483-36-396	11057	At least 70%; secondary component 25-27% tetrahydroionone			JECFA
07.117	3-Ethyl-2-hydroxy-4-methylcyclopent-2-en-1-one	42348-12-422	11077				JECFA
07.118	5-Ethyl-2-hydroxy-3-methylcyclopent-2-en-1-one	53263-58-423	11078				JECFA
07.119	2-Hydroxycyclohex-2-en-1-one	10316-66-224	11046				JECFA
07.120	2-Hydroxy-3,5,5-trimethylcyclohex-2-en-1-one	4883-60-7426	11198				JECFA
07.121	Dec-3-en-2-one	10519-33-2130	11751			1	EFSA
07.122	2,6-Dimethylheptan-4-one	108-83-8 302	11914	At least 80%; secondary component 15-17% 4,6-			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					dimethyl-2-heptanone			
07.123	Geranylacetone	3796-70-1	1122	11088				EFSA
07.124	2-Hydroxyacetophenone	118-93-4	727	11784				EFSA
07.125	3-Hydroxypentan-2-one	3142-66-3	3409	11115				JECFA
07.126	3,5,5-Trimethylcyclohex-2-en-1-one	78-59-1	1112	11918				EFSA
07.127	p-Mentha-1,4(8)-dien-3-one	491-09-8	757	11189			2	EFSA
07.128	Dihydrocarveol	7764-50-3	377	11703	At least 77%; secondary components 10-15% dihydrocarveol; 5-6% carvone; 2-3% carveol			JECFA
07.129	3-Methyl-5-propylcyclohex-2-en-1-one	3720-16-9	1113					EFSA
07.130	delta-Damascone	57378-68-3	386				2	JECFA/EFSA
07.131	Dihydro-beta-ionone	17283-81-3	394	11060				JECFA
07.132	Dihydro-alpha-ionone	31499-72-6	693	11059				JECFA
07.134	alpha-Damascone	43052-87-3	385	11053			2	JECFA/EFSA
07.135	2,4-Dihydroxyacetophenone	28631-86-9	929	11884	23-25% 2,3-isomer; 19-22% 2,4-isomer; 19-20%			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					2,5-isomer; 20-21% 3,4-isomer and 15-18% 3,5-isomer			
07.136	4,4a,5,6-Tetrahydro-7-methylnaphthalen-2(3H)-one	34545-88-5	1405				2	EFSA
07.137	Pentadecanone	2245-28-0	299	11808				JECFA
07.139	5-Methylhept-2-en-4-one	81925-81-7	1133				1	EFSA
07.140	3-Methyl-2-pentylcyclopent-2-en-1-one	1128-08-1	1406				2	EFSA
07.142	Acetovanillone	1080-02-2		11035				EFSA
07.146	d-Carvone	2244-16-8	380.1					JECFA
07.147	l-Carvone	6485-40-1	380.2					JECFA
07.148	Cyclohexanone	108-94-1	1100	11047				EFSA
07.149	Cyclopentanone	120-10-3	1101	11050				EFSA
07.150	Decan-2-one	693-54-9		11055				EFSA
07.151	Decan-3-one	928-80-3	1118	11056				EFSA
07.152	3,3-Diethoxybutan-2-one	51933-13-2						EFSA
07.153	(4R,4aS,6R,8aS)-5,6-Dihydronootkatone	20489-53-0	1407		At least 90%; secondary component 5-6% nootkatone			EFSA
07.154	1-(3,5-Dimethoxy-4-	5650-43-1		11106				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	hydroxyphenyl)propan-1-one						
07.156	2,6-Dimethyloct-6-en-3-one (mixture of E and Z)	90975-15-8					EFSA
07.157	6,10-Dimethylundecan-2-one	1604-34-8	11068				EFSA
07.158	Dodecan-2-one	26175-49-1	11069				EFSA
07.159	d-Fenchone	4695-62-9	1396	551			EFSA
07.160	Heptadecan-2-one	2922-51-2		11089			EFSA
07.161	Hex-1-en-3-one	1629-60-3				1	EFSA
07.162	Hex-5-en-2-one	109-49-9					EFSA
07.164	4-Hydroxy-3,5-dimethoxyacetophenone	2478-38-8		11105			EFSA
07.165	4-Hydroxy-4-methylpentan-2-one	123-42-2					EFSA
07.167	4-Hydroxyhexan-3-one	4984-85-4		11108			EFSA
07.168	2-Hydroxypiperitone	490-03-9					EFSA
07.169	1-Hydroxypropan-2-one	116-09-6		11101			EFSA
07.170	beta-Ionone epoxide	23267-57-4	4571	11202		2	EFSA
07.171	Isopinocampheol	18368-53-7	7868	11125			EFSA
07.172	4-Isopropylcyclohex-2-en-1-one	500-02-7	1110	11127			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.175	p-Menth-1-en-3-one	89-81-6	435	2052	At least 94%; secondary components 2-3% menthol and menthone			JECFA
07.176	trans-Menthone	89-80-5	429	2035				JECFA
07.177	7-Methyl-3-octenone-2	33046-81-0	135		At least 94%; secondary components 2-4% 7-methyl-4-octen-2-one, 5,6-dimethyl-3-hepten-2-one and 3-nonen-2-one		1	EFSA
07.178	3-Methylbutan-2-one	563-80-4		11131				EFSA
07.179	2-Methylcyclohexanone	583-60-8	1102					EFSA
07.180	3-Methylcyclohexanone	591-24-2	1103					EFSA
07.181	6-Methylheptan-2-one	928-68-7		11146				EFSA
07.182	5-Methylheptan-3-one	541-85-5						EFSA
07.184	3-Methylnona-2,4-dione	113486-29-2	132				4	JECFA/ EFSA
07.185	3-Methylpentan-2-one	565-61-7		11157				EFSA
07.187	Non-2-en-4-one	32064-72-5		11162			1	EFSA
07.188	Non-3-en-2-one	14309-57-0	136	11163			1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.189	Nonan-4-one	4485-09-0		11161				EFSA
07.190	Octa-1,5-dien-3-one	65213-86-7	1848				1	EFSA
07.193	1-Phenylbutan-1-one	495-40-9						EFSA
07.194	4-Phenylbutan-2-one	2550-26-7		11182				EFSA
07.195	1-Phenylpropan-2-one	103-79-7		11042				EFSA
07.196	Pin-2-en-4-one	80-57-9	1870	11186				EFSA
07.198	Pseudo-ionone	141-10-6		11191			1	EFSA
07.199	Tetradecanone	2345-27-9		11192				EFSA
07.200	4-(2,5,6,6-Tetramethyl-1-cyclohexenyl)but-3-en-2-one	79-70-9					2	EFSA
07.201	Tridec-12-en-2-one	60437-21-0						EFSA
07.202	2,6,6-Trimethylcyclohex-2-en-1-one	20013-73-4					1	EFSA
07.203	3,3,5-Trimethylcyclohexan-1-one	873-94-9						EFSA
07.204	3,3,6-Trimethylhepta-1,5-dien-4-one	546-49-6					1	EFSA
07.205	6,10,14-Trimethylpentadecan-2-one	502-69-2		11205				EFSA
07.206	4-(2,3,6-Trimethylphenyl)but-3-en-2-one	56681-06-2					2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.210	1-Nonene-3-one	24415-26-7				1	EFSA
07.214	alpha-Methylnaphthyl ketone	941-98-0					EFSA
07.215	d-Camphor	464-49-3	1395	140		In category 1 – not more than 16 mg/kg In categories 2 and 8 – not more than 50 mg/kg In category 3 – not more than 20 mg/kg In categories 5, 6, 7, 12 and 15 – not more than 100 mg/kg In category 14.1 – not more than 50 mg/l In category 14.2 – not more than 50 mg/l (except	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					not more than 850 mg/l in Schwedenbitter)		
07.219	trans-3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one	6261-18-3				2	EFSA
07.224	tr-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)but-2-en-1-one	23726-91-2			At least 90%; secondary components 2-4% alpha-damascone and 2-4% delta-damascone	2	EFSA
07.225	cis-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one	23726-94-5			At least 92%; secondary component 4% trans-isomer	2	EFSA
07.226	trans-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one	24720-09-0				2	EFSA
07.231	alpha-Damascenone	35044-63-4				2	EFSA
07.234	1-(4-Hydroxy-3-methoxyphenyl)-3-decanone	27113-22-0	021				EFSA
07.236	(Z)-5-Octen-2-one	22610-86-2		11171			EFSA
07.238	3-Hydroxy-2-octanone	37160-77-3					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.239	[R-(E)]-5-Isopropyl-8-methylnona-6,8-dien-2-one	2278-53-71840					EFSA
07.240	2-Methylheptan-3-one	13019-20-0156					EFSA
07.242	3-Hydroxy-4-phenylbutane-2-one	5355-63-52041		At least 93%; secondary component 3-5% 4-hydroxy-4-phenylbutan-2-one			EFSA
07.243	4-Hydroxyacetophenone	99-93-4					EFSA
07.244	(6E)-Methyl-3-hepten-2-one	20859-10-3138				1	EFSA
07.247	(E,E)-3,5-Octadien-2-one	30086-02-3139				1	EFSA
07.248	Octan-2,3-dione	585-25-1					EFSA
07.249	Undecanone	927-49-1	1155				EFSA
07.254	2-Methoxyacetophenone	579-74-8					EFSA
07.255	1-Piperitone	4573-50-61856				1	EFSA
07.256	(E) & (Z)-4,8-Dimethyl-3,7-nonadiene-2-one	817-88-9	1137	At least 94%; secondary component 3-4% 4,8-dimethyl-3,7-nonadien-2-ol		1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

07.257	2-(3,7-Dimethyl-2,6-octadienyl)cyclopentanone	68133-79-9	117					EFSA
07.258	6-Methyl-3-hepten-2-one	2009-74-7					1	EFSA
07.259	2-Methylacetophenone	577-16-2	2044					EFSA
07.260	3-Hydroxy-5-methyl-2-hexanone	163038-04-8						EFSA
07.261	4-Methyl-3-hepten-5-one	22319-31-9					1	EFSA
07.262	9-decen-2-one	35194-30-0						EFSA
08.001	Formic acid	64-18-6	79	1				JECFA
08.002	Acetic acid	64-19-7	81	2				JECFA
08.003	Propionic acid	79-09-4	84	3				JECFA
08.004	Lactic acid	598-82-3	930	4				EFSA
08.005	Butyric acid	107-92-6	87	5				JECFA
08.006	2-Methylpropionic acid	79-31-2	253	6				JECFA
08.007	Valeric acid	109-52-4	90	7				JECFA
08.008	3-Methylbutyric acid	503-74-2	259	8				JECFA
08.009	Hexanoic acid	142-62-1	93	9				JECFA
08.010	Octanoic acid	124-07-2	99	10				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.011	Decanoic acid	334-48-5	105	11			JECFA
08.012	Dodecanoic acid	143-07-7	111	12	At least 90%; secondary components 3-6% tetradecanoic acid; 2-5% decanoic acid; 1-2% hexadecanoic acid		JECFA
08.013	Oleic acid	112-80-1	333	13	At least 90%; secondary component 5-7% palmitic acid and other fatty acids		JECFA
08.014	Hexadecanoic acid	571-10-3	115	14	At least 80%; secondary components 8-11% octadecanoic acid; 5-7% tetradecanoic acid; 3-5% heptadecanoic acid; <1% pentadecanoic acid		JECFA
08.015	Octadecanoic acid	571-11-4	116	15	At least 40%; secondary components 5-50% hexadecanoic acid; <3% tetradecanoic acid;		JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					<5% 9-octadecenoic acid; <3% heptadecanoic acid; <2% eicosanoic acid; <1% pentadecanoic acid		
08.016	Tetradecanoic acid	544-63-8	113	16	At least 94%; secondary components 2-4% hexadecanoic acid; 1-3% dodecanoic acid		JECFA
08.017	l-Malic acid	6915-15-7	619	17			JECFA
08.018	Tartaric acid	133-37-9	621	18			JECFA
08.019	Pyruvic acid	127-17-3	936	19			EFSA
08.021	Benzoic acid	65-85-0	850	21			EFSA
08.022	Cinnamic acid	621-82-9	657	22			EFSA
08.023	4-Oxovaleric acid	123-76-2	606	23			JECFA
08.024	Succinic acid	110-15-6		24			CoE
08.025	Fumaric acid	110-17-8	618	25			JECFA
08.026	Adipic acid	124-04-9	623	26			JECFA
08.028	Heptanoic acid	111-14-8	96	28			JECFA
08.029	Nonanoic acid	112-05-0	102	29			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.031	2-Methylvaleric acid	97-61-0	261	31				JECFA
08.032	3-Phenylpropionic acid	501-52-0	646	32				EFSA
08.033	Prop-1-ene-1,2,3-tricarboxylic acid	499-12-7	627	33				JECFA
08.034	Cyclohexanecarboxylic acid	509-12-7	965	34				EFSA
08.035	2-Methylhexanoic acid	4536-23-6	265	582				JECFA
08.036	Citronellinic acid	502-47-6	1221	616	At least 90%; secondary components 5-8% citronella, citronellyl, neryl, and geranyl acetate esters and other naturally occurring terpenes			EFSA
08.037	2-Oxoglutaric acid	328-50-7	634	653				JECFA
08.038	Phenylacetic acid	103-82-2	1007	672				EFSA
08.039	Undec-10-enoic acid	112-38-9	331	689				JECFA
08.040	4-Hydroxybenzoic acid	99-96-7	957	693				EFSA
08.041	Octadeca-6,12-dienoic acid	6023-3	332	694	44-46% linolenic acid; 18-20%			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					linoleic acid; 22-25% stearic and oleic acid; 7-8% palmitic acid			
08.042	Undecanoic acid	12-37-8	108	696				JECFA
08.043	Vanillic acid	121-34-6	959	697				EFSA
08.044	(2E),4-Dimethylpent-2-enoic acid	21016-46-6	1211	744	At least 92%; secondary component 5-7% 4-methyl-2-methylenevaleric acid.			EFSA
08.045	2-Ethylbutyric acid	88-09-5	257	2001				JECFA
08.046	2-Methylbutyric acid	116-53-0	255	2002				JECFA
08.047	2-Methylheptanoic acid	1188-02-9	1212	2003				EFSA
08.048	Pent-4-enoic acid	591-80-0	314	2004				JECFA
08.049	Phenoxyacetic acid	121-59-8	1026	2005				EFSA
08.050	Hex-3-enoic acid	4219-24-3	317	2256				JECFA
08.051	3-Methyl-2-oxobutyric acid	759-05-7	631	2262				JECFA
08.052	4-Methyl-2-oxovaleric acid	816-66-0	633	2263				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.053	Malonic acid	141-82-2		2264				EFSA
08.054	Hex-2(trans)-enoic acid	3419-69-7	1361	11777				EFSA
08.055	2-Methyl-2-pentenoic acid	3142-72-1	1210	11680				EFSA
08.056	3-Methylvaleric acid	105-43-1	262	10149				JECFA
08.057	4-Methylvaleric acid	646-07-1	264	10150				JECFA
08.058	2-Methylpent-3-enoic acid	37674-63-8	847	10147				JECFA
08.059	2-Methylpent-4-enoic acid	1575-74-2	2355	10148				JECFA
08.060	Cyclohexanecarboxylic acid	98-89-5	161	11911				EFSA
08.061	5-Methylhexanoic acid	628-46-6	266	10142				JECFA
08.062	4-Methylnonanoic acid	45019-28-2	274	11925				JECFA
08.063	4-Methyloctanoic acid	54947-74-2	271	11926				JECFA
08.064	(2E)-Methylcrotonic acid	80-59-1	1205	10168				EFSA
08.065	Dec-9-enoic acid	14436-32-9	928	10090				JECFA
08.066	2-Oxobutyric acid	600-18-0	589					JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.067	1,2,5,6-Tetrahydrocuminic acid	71298-42-976					EFSA
08.068	Dec-(5- and 6)-enoic acid	72881-27-327					JECFA
08.070	3-Methylcrotonic acid	541-47-9	1204	10138			EFSA
08.071	p-Anisic acid	100-09-4	883	10077			EFSA
08.072	But-2-enoic acid (cis and trans)	3724-65-0		10080			EFSA
08.073	Dec-2-enoic acid	3913-85-7	1372	10087			EFSA
08.074	Dec-3-enoic acid	15469-77-9		10088			EFSA
08.075	Dec-4-enoic acid	26303-90-1	287	10089			EFSA
08.076	2,4-Dihydroxybenzoic acid	89-86-1	908				EFSA
08.078	2-Ethylhexanoic acid	149-57-5					EFSA
08.079	4-Ethyl octanoic acid	16493-80-4	218				EFSA
08.080	Gallic acid	149-91-7		10170			EFSA
08.081	Geranic acid	459-80-3	1825	10094			EFSA
08.082	Glutaric acid	110-94-1					EFSA
08.083	Hept-2-enoic acid	18999-28-5		10102			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.085	(E,E)-Hexa-2,4-dienoic acid	110-44-1	1176				EFSA
08.086	3-Hydroxy-2-oxopropionic acid	1113-60-6	6635				JECFA
08.087	4-Hydroxy-3,5-dimethoxybenzoic acid	530-57-4		10111			EFSA
08.088	4-Hydroxy-3,5-dimethoxycinnamic acid (mixture of isomers)	530-59-6					EFSA
08.089	4-Hydroxy-3-methoxycinnamic acid (mixture of isomers)	1135-24-6		10113			EFSA
08.090	2-Hydroxy-4-methylvaleric acid	498-36-2		10118			EFSA
08.092	3-Methoxybenzoic acid	586-38-9	882				EFSA
08.093	3-Methyl-2-oxovaleric acid	39748-49-7	832	10146			JECFA
08.094	4-Methyldecanoic acid	24323-24-8					EFSA
08.095	8-Methyldecanoic acid	5601-60-5					EFSA
08.096	3-Methylhexanoic acid	3780-58-3					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

08.097	4-Methylhexanoic acid	1561-11-1					EFSA
08.099	4-Methylpent-2-enoic acid	10321-71-8	818				EFSA
08.100	4-Methylpent-3-enoic acid	504-85-8					EFSA
08.101	Non-2-enoic acid	3760-11-0		10153			EFSA
08.102	Non-3-enoic acid	4124-88-3		10154			EFSA
08.103	Nonanedioic acid	123-99-9		10079			EFSA
08.107	(E)-Pent-2-enoic acid	13991-37-2	804	10163			EFSA
08.108	2-Phenylpropionic acid	492-37-5		10164			EFSA
08.109	3-Phenylpyruvic acid	156-06-9	1478				EFSA
08.112	Salicylic acid	69-72-7	958	10165			EFSA
08.113	Succinic acid, disodium salt	150-90-3					EFSA
08.114	2-Octenoic acid	1871-67-6	1805	10156			EFSA
08.115	4-Methylheptanoic acid	3302-03-2					EFSA
08.119	2-Hexenoic acid	1191-04-4		11777			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

08.120	2-Methyl-2-butenoic acid	13201-46-2		10168				EFSA
08.123	trans-2-Heptenoic acid	10352-88-2	1373					EFSA
08.127	2-(4-Methoxyphenoxy)propionic acid	158833-38-6						EFSA
08.131	cis-2-Heptyl-cyclopropanecarboxylic acid	697290-76-9	1907					EFSA
08.132	3-Hydroxybenzoic acid	99-06-9						EFSA
08.133	3,4-Dihydroxybenzoic acid	99-50-3						EFSA
08.134	4-Hydroxy-3-methoxy-mandelic acid	55-10-7						EFSA
08.135	4-(2,2,3-trimethylcyclopentyl)butanoic acid	957136-80-0						EFSA
09.001	Ethyl acetate	141-78-6	27	191				JECFA
09.002	Propyl acetate	109-60-4	126	192				JECFA
09.003	Isopropyl acetate	108-21-4	305	193				JECFA
09.004	Butyl acetate	123-86-4	127	194				JECFA
09.005	Isobutyl acetate	110-19-0	137	195				JECFA
09.006	Hexyl acetate	142-92-7	128	196				JECFA
09.007	Octyl acetate	112-14-1	130	197				JECFA
09.008	Nonyl acetate	143-13-5	131	198				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.009	Decyl acetate	112-17-4	132	199				JECFA
09.010	Dodecyl acetate	112-66-3	133	200				JECFA
09.011	Geranyl acetate	105-87-3	58	201	At least 90%; secondary components 4-6% geraniol and 1-2% nerol			JECFA
09.012	Citronellyl acetate	1150-84-5	57	202	At least 92%; secondary component 4-6% citronellol			JECFA
09.013	Linalyl acetate	115-95-7	359	203				JECFA
09.014	Benzyl acetate	140-11-4	23	204				EFSA
09.015	alpha-Terpinyl acetate	80-26-2	368	205				SCF/CoE
09.016	Menthyl acetate	29066-34-0	31	206				JECFA
09.017	DL-Bornyl acetate	76-49-3	1387	207				EFSA
09.018	Cinnamyl acetate	103-54-8	650	208				EFSA
09.019	p-Anisyl acetate	104-21-2	873	209				EFSA
09.020	Eugenyl acetate	93-28-7	1531	210				EFSA
09.021	Pentyl acetate	628-63-7		211				SCF/CoE
09.022	Heptyl acetate	112-06-1	129	212				JECFA
09.023	Methyl acetate	79-20-9	125	213				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.024	Isopentyl acetate	123-92-2	43	214				JECFA
09.025	2-Ethylbutyl acetate	10031-87-5	140	215				JECFA
09.026	alpha-Pentylcinnamyl acetate	7493-78-9	677	216				EFSA
09.027	Cyclohexyl acetate	622-45-7	1093	217				EFSA
09.028	2-Cyclohexylethyl acetate	21722-83-8	64	218				EFSA
09.029	1,1-Dimethyl-3-phenylpropyl acetate	103-07-1	1460	219				EFSA
09.030	2-Methoxy-4-(prop-1-enyl)phenyl acetate	93-29-8	1262	220				EFSA
09.031	Phenethyl acetate	103-45-7	989	221				EFSA
09.032	3-Phenylpropyl acetate	122-72-5	638	222				EFSA
09.033	Rhodinyl acetate	141-11-7	60	223	At least 87%; secondary component 9-12% rhodinol			JECFA
09.034	Santalyl acetate	1323-00-8	985	224			2	EFSA
09.035	Vanillyl acetate	881-68-5	890	225				EFSA
09.036	p-Tolyl acetate	140-39-6	699	226				EFSA
09.037	Ethyl acrylate	140-88-5	1351	245				EFSA
09.038	Methyl butyrate	623-42-7	149	263				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.039	Ethyl butyrate	105-54-4	29	264				JECFA
09.040	Propyl butyrate	105-66-8	150	266				JECFA
09.041	Isopropyl butyrate	638-11-9	307	267				JECFA
09.042	Butyl butyrate	109-21-7	151	268				JECFA
09.043	Isobutyl butyrate	539-90-2	158	269				JECFA
09.044	Pentyl butyrate	540-18-1	152	270				JECFA
09.045	Hexyl butyrate	2639-63-6	153	271				JECFA
09.046	Octyl butyrate	110-39-4	155	272				JECFA
09.047	Decyl butyrate	5454-09-1	156	273				JECFA
09.048	Geranyl butyrate	106-29-6	66	274	At least 92%; secondary components 3-5% geraniol and 1% nerol			JECFA
09.049	Citronellyl butyrate	1141-16-2	65	275	At least 90%; secondary component 6-8% citronellol			JECFA
09.050	Linalyl butyrate	78-36-4	361	276				JECFA
09.051	Benzyl butyrate	103-37-7	843	277				EFSA
09.052	Terpinyl butyrate	2153-28-8	370	278				JECFA
09.053	Cinnamyl butyrate	103-61-7	652	279				EFSA
09.054	Allyl butyrate	2051-78-7	72	280			2	JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.055	3-Methylbutyl butyrate	106-27-4	45	282				JECFA
09.057	2-Phenylpropyl butyrate	80866-83-7	1469	285				EFSA
09.058	p-Anisyl butyrate	6963-56-0	875	286				EFSA
09.059	Ethyl decanoate	110-38-3	35	309				JECFA
09.060	Ethyl hexanoate	123-66-0	31	310				JECFA
09.061	Propyl hexanoate	626-77-7	161	311				JECFA
09.062	Isopropyl hexanoate	2311-46-8	308	312				JECFA
09.063	Butyl hexanoate	626-82-4	162	313				JECFA
09.064	Isobutyl hexanoate	105-79-3	166	314				JECFA
09.065	Pentyl hexanoate	540-07-8	163	315				JECFA
09.066	Hexyl hexanoate	6378-65-0	164	316				JECFA
09.067	Geranyl hexanoate	10032-02-7	70	317				JECFA
09.068	Linalyl hexanoate	7779-23-9	364	318				JECFA
09.069	Methyl hexanoate	106-70-7	1871	319				SCF/ CoE
09.070	3-Methylbutyl hexanoate	2198-61-0	46	320				JECFA
09.071	3-Phenylpropyl hexanoate	6281-40-9	642	321				EFSA
09.072	Ethyl formate	109-94-4	26	339				JECFA
09.073	Propyl formate	110-74-7	117	340	At least 94%; secondary component 4-6%			JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					propyl alcohol			
09.074	Heptyl formate	112-23-2	121	341	At least 94%; secondary component 1-5% heptanal			JECFA
09.075	Octyl formate	112-32-3	122	342				JECFA
09.076	Geranyl formate	105-86-2	54	343	At least 85%; secondary components 8-10% geraniol and 2-4% nerol			JECFA
09.077	Benzyl formate	104-57-4	841	344				EFSA
09.078	Citronellyl formate	1105-85-1	53	345	At least 90%; secondary component 5-10% citronellol			JECFA
09.079	Rhodinyl formate	141-09-3	56	346	At least 85%; secondary component 10-13% rhodinol			JECFA
09.080	Linalyl formate	115-99-1	358	347	At least 90%; secondary component 6-8% linalool			JECFA
09.081	alpha-Terpinyl formate	2153-26-6	367	348				JECFA
09.082	DL-Bornyl formate	7492-41-3	1389	349				EFSA
09.083	Phenethyl formate	104-62-1	988	350				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.084	3-Phenylpropyl formate	104-64-3	637	351				EFSA
09.085	Cinnamyl formate	104-65-4	649	352				EFSA
09.086	2-Methyl-1-phenyl-2-propyl formate	10058-43-1	654	353	At least 93%; secondary component 5-7% alpha,alpha-dimethylphenethyl alcohol			EFSA
09.087	p-Anisyl formate	122-91-8	872	354	At least 90%; secondary component 8% anisyl alcohol			EFSA
09.088	Eugenyl formate	10031-96-6	630	355	At least 94%; secondary component 2-3% eugenol			EFSA
09.089	Isoeugenyl formate	7774-96-1	1261	356				EFSA
09.090	alpha-Pentylcinnamyl formate	7493-79-0	676	357	At least 85%; secondary component 10-12% alpha-amylcinnamyl alcohol			EFSA
09.091	Butyl heptanoate	5454-28-4	169	363				JECFA
09.092	Isobutyl heptanoate	7779-80-8	172	364				JECFA
09.093	Ethyl heptanoate	106-30-9	32	365				JECFA
09.094	Octyl heptanoate	5132-75-2	171	366				JECFA
09.095	Propyl heptanoate	7778-87-2	168	367				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.096	Methyl heptanoate	106-73-0	167	368				JECFA
09.097	Allyl heptanoate	142-19-8	4	369			2	JECFA
09.098	Pentyl heptanoate	7493-82-5	170	370	At least 93%; secondary component			JECFA
					4-7% n-amyl 2-methylhexanoate			
09.099	Ethyl dodecanoate	106-33-2	37	375				JECFA
09.100	Butyl dodecanoate	106-18-3	181	376				JECFA
09.101	Methyl dodecanoate	111-82-0	180	377	At least 94%; secondary components			JECFA
					3-6% methyl tetradecanoate;			
					2-5% methyl decanoate;			
					1-2% methyl hexadecanoate			
09.102	p-Tolyl dodecanoate	10024-57-4	404	378	At least 90%; secondary components			EFSA
					3-6% p-tolyl tetradecanoate;			
					2-5% p-tolyl decanoate;			
					1-2% p-tolyl hexadecanoate			
09.103	3-Methylbutyl dodecanoate	6309-51-9	182	379				JECFA
09.104	Ethyl tetradecanoate	124-06-1	38	385				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.105	Isopropyl tetradecanoate	110-27-0	311	386				JECFA
09.106	Methyl tetradecanoate	124-10-7	183	387				JECFA
09.107	Ethyl nonanoate	123-29-5	34	388				JECFA
09.108	Methyl nonanoate	1731-84-6	179	389				JECFA
09.109	Allyl nonanoate	7493-72-3	6	390			2	JECFA
09.110	3-Methylbutyl nonanoate	7779-70-6	648	391				JECFA
09.111	Ethyl octanoate	106-32-1	33	392				JECFA
09.112	Pentyl octanoate	638-25-5	174	393				JECFA
09.113	Hexyl octanoate	1117-55-1	175	394				JECFA
09.114	Octyl octanoate	2306-88-9	177	395				JECFA
09.115	Nonyl octanoate	7786-48-3	178	396				JECFA
09.116	Linalyl octanoate	10024-64-3	365	397	At least 93%; secondary components 2-3% linalool and 2-3% octanoic acid			JECFA
09.117	Methyl octanoate	111-11-5	173	398				JECFA
09.118	Heptyl octanoate	4265-97-8	176	399				JECFA
09.119	Allyl octanoate	4230-97-1	15	400			2	JECFA
09.120	3-Methylbutyl octanoate	2035-99-6	647	401				JECFA
09.121	Ethyl propionate	105-37-3	28	402				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.122	Propyl propionate	106-36-5	142	403				JECFA
09.123	Isopropyl propionate	637-78-5	306	404				JECFA
09.124	Butyl propionate	590-01-2	143	405				JECFA
09.125	Isobutyl propionate	540-42-1	148	406				JECFA
09.126	Octyl propionate	142-60-9	145	407				JECFA
09.127	Decyl propionate	5454-19-3	146	408				JECFA
09.128	Geranyl propionate	105-90-8	62	409	At least 92%; secondary components 3-4% geraniol and 1-2% nerol			JECFA
09.129	Citronellyl propionate	141-14-0	61	410	At least 90%; secondary component 5-8% citronellol			JECFA
09.130	Linalyl propionate	144-39-8	360	411	At least 94%; secondary component 2-5% linalool			JECFA
09.131	DL-Isobornyl propionate	2756-56-1	842	412				EFSA
09.132	Benzyl propionate	122-63-4	651	413				EFSA
09.133	Cinnamyl propionate	103-56-0	651	414				EFSA
09.134	Methyl propionate	554-12-1	141	415				JECFA
09.135	Pentyl propionate	624-54-4		416				SCF/ CoE

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.136	3-Methylbutyl propionate	105-68-0	44	417				JECFA
09.137	Phenethyl propionate	122-70-3	990	418				EFSA
09.138	3-Phenylpropyl propionate	122-74-7	639	419				EFSA
09.139	Hexyl propionate	2445-76-3	144	420				JECFA
09.140	Cyclohexyl propionate	6222-35-1	1097	421				EFSA
09.141	Rhodinyl propionate	105-89-5	64	422				JECFA
09.142	Terpinyl propionate	80-27-3	369	423				JECFA
09.143	Carvyl propionate	97-45-0	383	424				JECFA
09.144	1-Phenethyl propionate	120-45-6	802	425				EFSA
09.145	p-Anisyl propionate	7549-33-9	874	426				EFSA
09.146	Allyl undec-10-enoate	7493-76-7	79	441			2	JECFA
09.147	Ethyl valerate	539-82-2	30	465				JECFA
09.148	Butyl valerate	591-68-4	160	466				JECFA
09.149	Pentyl valerate	2173-56-0		467				SCF/CoE
09.150	(E)-Geranyl valerate	10402-47-8	821	468				EFSA
09.151	Citronellyl valerate	7540-53-6	669	469	At least 85%; secondary component 10-12% rhodinol			JECFA
09.152	Benzyl valerate	10361-39-4		470				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.153	DL-Bornyl valerate	7549-41-9	1392	471				EFSA
09.154	Menthyl valerate	89-47-4	1852	472				EFSA
09.156	Methyl 2-nonynoate	111-80-8	1356	479				EFSA
09.157	Ethyl 2-nonynoate	10031-92-2	1352	480				EFSA
09.158	Methyl 2-octynoate	111-12-6	1357	481				EFSA
09.159	Pentyl formate	638-49-3	119	497	At least 92%; secondary component 4-8% n-amyl alcohol			JECFA
09.160	Cyclohexyl formate	4351-54-6	1095	498				EFSA
09.161	Hexyl formate	629-33-4	120	499				JECFA
09.162	3-Methylbutyl formate	110-45-2	42	500	At least 92%; secondary component 4-8% isoamyl alcohol			JECFA
09.163	Butyl formate	592-84-7	118	501				JECFA
09.164	Isobutyl formate	542-55-2	124	502	At least 94%; secondary component 4-6% isobutyl alcohol			JECFA
09.165	Isopropyl formate	625-55-8	304	503				JECFA
09.166	Heptyl butyrate	5870-93-9	154	504				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.167	Neryl butyrate	999-40-6	67	505				JECFA
09.168	Phenethyl butyrate	103-52-6	991	506				EFSA
09.169	Neryl propionate	105-91-9	63	509				JECFA
09.171	Cedryl acetate	77-54-3		527				EFSA
09.174	2-Methoxyphenyl acetate	613-70-7	718	552				EFSA
09.176	DL-Isobornyl formate	1200-67-5	1390	565				EFSA
09.178	1-Phenethyl acetate	93-92-5	801	573				EFSA
09.179	1-Phenethyl formate	7775-38-4	800	574				EFSA
09.180	Methyl hexadecanoate	112-39-0		581				EFSA
09.181	Methyl hex-2-enoate	2396-77-2		583				EFSA
09.182	Methyl valerate	624-24-8	159	588				JECFA
09.185	2-Oxopropyl acetate	592-20-1		607				SCF/ CoE
09.186	sec-Butan-3-onyl acetate	4906-24-5	406	608				JECFA
09.188	Pentyl decanoate	5933-87-9		611				SCF/ CoE
09.189	1-Phenylpropyl butyrate	10031-86-8	823	628				EFSA
09.191	Ethyl hex-3-enoate	2396-83-0	335					JECFA
09.192	Ethyl oleate	111-62-6	345	633				JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.193	Ethyl hexadecanoate	628-97-7	39	634			JECFA
09.194	Ethyl (E,E)-hexa-2,4-dienoic acid	2396-84-1	1178	635			EFSA
09.197	Hex-3(cis)enyl acetate	3681-71-8	134	644			JECFA
09.198	Isopentyl valerate	2050-09-1		648			SCF/CoE
09.200	1-Methyl-3-phenylpropyl acetate	10415-88-8	16	671			EFSA
09.201	Phenethyl valerate	7460-74-4		673			EFSA
09.202	Propyl valerate	141-06-0		679			SCF/CoE
09.204	Ethyl octadeca-9,12-dienoate	544-35-4		711			SCF/CoE
09.205	Ethyl octadeca-9,12,15-trienoate	1191-41-9		712			SCF/CoE
09.208	Butyl oleate	142-77-8		741			SCF/CoE
09.209	Butyl octanoate	589-75-3		742			SCF/CoE
09.210	Ethyl octadecanoate	111-61-5	40	745	At least 89%; secondary components 6-7% ethyl palmitate and ethyl esters of other fatty acid		JECFA
09.211	Glyceryl tributyrates	60-01-5	922	747			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.212	Neryl formate	2142-94-155		2060	At least 90%, secondary components 4-6% geraniol, 1-3% nerol and formate esters of citronellol, geraniol and rhodinol			JECFA
09.213	Neryl acetate	141-12-8	59	2061				JECFA
09.214	Undec-10-enyl acetate	112-19-6	136	2062				JECFA
09.215	Carvyl acetate	97-42-7	382	2063				JECFA
09.216	Dihydrocarvyl acetate	2077-49-5	379	2064				JECFA
09.218	DL-Isobornyl acetate	125-12-2	1388	2066				EFSA
09.219	1R,2S,5R-isopulegyl acetate	57576-09-7	756	2067			4	EFSA
09.220	Piperonyl acetate	326-61-4	894	2068				EFSA
09.225	1,3-Nonanediol acetate	1322-17-4	605	2075				JECFA
09.227	1,1-Dimethyl-2-phenethyl acetate	151-05-3	1655	2077				EFSA
09.228	o-Tolyl acetate	533-18-6	698	2078				EFSA
09.230	Cyclohexyl butyrate	1551-44-6	1094	2082				EFSA
09.231	1-Phenethyl butyrate	3460-44-4	803	2083				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.232	1,1-Dimethyl-2-phenethylbutyrate	10094-34-5	1656	2084				EFSA
09.233	Allyl propionate	2408-20-01		2094				JECFA
09.234	Methyl non-2-enoate	111-79-5	1813	2099				EFSA
09.235	Butyl dec-2-enoate	7492-45-7	1348	2100				EFSA
09.236	Methyl undec-9-enoate	5760-50-9	342	2101				JECFA
09.237	Ethyl undec-10-enoate	692-86-4	343	10634				JECFA
09.238	Butyl undec-10-enoate	109-42-2	344	2103				JECFA
09.239	Methyl 2-undecynoate	10522-18-6	358	2111				EFSA
09.240	Hex-3(cis)-enyl formate	33467-73-1	123	2153				JECFA
09.244	Allyl hexanoate	123-68-2	3	2181			2	JECFA
09.246	Butyl octadecanoate	123-95-5	184	2189				JECFA
09.247	Allyl crotonate	20474-93-5		2222			2	EFSA
09.248	Ethyl trans-2-butenolate	623-70-1		2244				EFSA
09.249	1-Methyl-2-phenethylbutyrate	68922-11-3	14	2276				EFSA
09.250	Isobutyl valerate	10588-10-0		2303				SCF/ CoE
09.251	Methyl decanoate	110-42-9		2304				SCF/ CoE

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.253	2-Isopropyl-5-methylphenyl acetate	528-79-0		2308				EFSA
09.254	3-Octyl acetate	4864-61-3	313	2347				JECFA
09.256	Propyl nonanoate	6513-03-7		2351				SCF/ CoE
09.258	D-Glucose pentaacetate	3891-59-6						EFSA
09.260	Ethyl (E,Z)-deca-2,4-dienoate	3025-30-7	1192	10574				EFSA
09.261	2-Phenethyl hexanoate	6290-37-5	995	10882				EFSA
09.262	Phenethyl octanoate	5457-70-5	996	10884				EFSA
09.263	Glyceryl tripropionate	139-45-7	921	10657				EFSA
09.264	sec-Butan-3-onyl butyrate	84642-61-4	407	10525				JECFA
09.265	Ethyl oct-4-enoate	34495-71-3	338	10619				JECFA
09.266	Hexyl (2E)-butenoate	19089-92-0	807	10688				EFSA
09.267	Methyl hex-3-enoate	2396-78-3	334	10801				JECFA
09.268	Methyl oct-4(cis)-enoate	21063-71-8	837	10834				JECFA
09.269	Fenchyl acetate	13851-11-1	1399	11769				EFSA
09.270	Hex-3-enyl butyrate	16491-36-4	457	11859				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.271	Hex-3-enyl hexanoate	31501-11-865		11779				JECFA
09.272	Myrtenyl formate	72928-52-083		10858			2	EFSA
09.273	Isobutyl crotonate	589-66-2	1206	10706				EFSA
09.274	Ethyl undecanoate	627-90-7	36	10633				JECFA
09.275	Hept-3(trans)-enyl acetate	576-77-8	135	10662				JECFA
09.276	Oct-2-enyl acetate	3913-80-2	1367	11906			2	EFSA
09.277	Oct-2(trans)-enyl butyrate	84642-60-4	368	11907			2	EFSA
09.278	p-Mentha-1,8-dien-7-yl acetate	15111-96-9	975	10742			2	EFSA
09.280	Nonane-1,4-diyl diacetate	47715-81-5	509	11927	At least 92%; secondary component 5-8% monoacetate			JECFA
09.281	Oct-1-en-3-yl acetate	2442-10-6	1836	11716			1	EFSA
09.282	Oct-1-en-3-yl butyrate	16491-54-6	837				1	EFSA
09.283	(E)-Ethyl dec-2-enoate	7367-88-6	1814	10577				EFSA
09.284	Ethyl dec-4-enoate	76649-16-6	641	10578				JECFA
09.285	Ethyl oct-2(trans)-enoate	7367-82-0	1812	10617				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.286	2-Methylbutyl acetate	624-41-9	138	10762			JECFA
09.287	Propyl deca-2,4-dienoate	28316-62-3		10889			EFSA
09.288	4-(4-Acetoxyphenyl)butan-2-one	3572-06-3	731		At least 93%; secondary component 2-5% ortho-isomer.		EFSA
09.289	alpha-Campholene acetate	36789-59-0	69				EFSA
09.290	Ethyl octa-4,7-dienoate	69925-33-3	39				JECFA
09.291	Hex-3-enyl hex-3-enoate	61444-38-0	36				JECFA
09.292	Hexyl 2-hexenoate	33855-57-1	1810		At least 92%; secondary component 6-8% hexyl trans-3-hexenoate		EFSA
09.294	2-Methylbenzyl acetate	17373-93-8	63		At least 98% (sum of o,m,p-isomers)		EFSA
09.298	Methyl non-3-enoate	13481-87-3	40				JECFA
09.299	Methyl oct-2(trans)-enoate	7367-81-9	1811	11800	At least 90%; secondary component 5-6% methyl trans-3-octenoate		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.300	Methyl (E,E)-hexa-2,4-dienoic acid	689-89-4	1177					EFSA
09.301	p-Tolyl octanoate	59558-23-5	303					EFSA
09.302	Myrtenyl acetate	1079-01-2	2982	10887			2	EFSA
09.303	Hept-2-enyl isovalerate	253596-701	299	10664			2	EFSA
09.304	sec-Heptyl isovalerate	238757-71	6	10806				EFSA
09.305	beta-Ionyl acetate	22030-19-9	9409	10702	At least 92%; secondary components 2-5% acetic acid and 1-2% beta-ionol		2	EFSA
09.306	2-Methoxycinnamyl acetate (mixture of isomers)	110823-66	0	10752				EFSA
09.307	2-Methylbutyl dodecanoate	93815-53	3	10766				EFSA
09.312	Allyl hexa-2,4-dienoate	7493-75	68	2182			2	JECFA/ EFSA
09.313	Benzyl 2-methylbutyrate	56423-40	6	10523				EFSA
09.314	Benzyl crotonate	65416-24	2					EFSA
09.315	Benzyl dodecanoate	140-25	0					EFSA
09.316	Benzyl hexanoate	6938-45	0	10521				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.317	Benzyl lactate	2051-96-9					EFSA
09.318	Benzyl octanoate	10276-85-4					EFSA
09.319	DL-Bornyl butyrate	13109-70-1412					EFSA
09.321	Butyl 2-methylbut-2(cis)-enoate	7785-64-0					EFSA
09.323	sec-Butyl acetate	105-46-4	10527				EFSA
09.324	Butyl but-(2E)-enoate	591-63-9					EFSA
09.325	sec-Butyl butyrate	819-97-6	10528				EFSA
09.326	Butyl deca-(2E,4Z)-dienoate	28369-24-6	10529				EFSA
09.327	Butyl decanoate	30673-36-0	10530				EFSA
09.328	sec-Butyl formate	589-40-2	10532				EFSA
09.329	Butyl hex-2-enoate	13416-74-5					EFSA
09.330	Butyl hex-(3E)-enoate	118869-62-8					EFSA
09.331	Butyl hexadecanoate	111-06-8					EFSA
09.332	sec-Butyl hexanoate	820-00-8	10533				EFSA
09.333	sec-Butyl lactate	18449-60-0					EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.334	Butyl nonanoate	50623-57-9					EFSA
09.335	Butyl oct-2-enoate	57403-32-4	10536				EFSA
09.337	Carvacryl acetate	6380-28-5					EFSA
09.339	Cinnamyl 2-methylcrotonate (mixture of isomers)	61792-12-9					EFSA
09.340	Citronellyl 2-methylbut-2-enoate	24717-85-9	9823				EFSA
09.341	Citronellyl hexanoate	10580-25-3					EFSA
09.342	Cyclogeranyl acetate	69842-11-1					EFSA
09.345	Di-isopentyl succinate	818-04-2	10555				EFSA
09.346	Dibutyl malate	6280-99-5					EFSA
09.347	Dibutyl succinate	141-03-7					EFSA
09.348	Diethyl adipate	141-28-6					EFSA
09.349	Diethyl citrate	32074-56-9					EFSA
09.350	Diethyl fumarate	623-91-6					EFSA
09.351	Diethyl maleate	141-05-9	10551				EFSA
09.352	Diethyl nonanedioate	624-17-9	10549				EFSA
09.353	Diethyl oxalate	95-92-1					EFSA
09.354	Diethyl pentanedioate	818-38-2					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.355	neo-Dihydrocarvyl acetate	56422-50-5	10859				EFSA
09.356	1,1-Dimethylethyl propionate	20487-40-5					EFSA
09.358	3,7-Dimethyloctyl acetate	20780-49-8	10899				EFSA
09.360	Ethyl 2-acetoxypropionate	2985-28-6					EFSA
09.362	Ethyl 2-hydroxy-4-methylbenzoate	60770-00-5					EFSA
09.363	Ethyl 2-methoxybenzoate	7335-26-4					EFSA
09.364	Ethyl 2-phenylpropionate	2510-99-8					EFSA
09.365	Ethyl 3-methylcrotonate	638-10-8	10610				EFSA
09.367	Ethyl 4-hydroxybenzoate	120-47-8					EFSA
09.368	Ethyl 4-methylpent-3-enoate	6849-18-9	10615				EFSA
09.370	Ethyl dec-9-enoate	67233-91-4	10579				EFSA
09.371	Ethyl deca-2,4,7-trienoate	78417-28-4	10576				EFSA
09.372	Ethyl dodec-(2E)-enoate	28290-90-6	10584				EFSA
09.374	Ethyl hept-(2E)-enoate	54340-72-6					EFSA
09.375	Ethyl methacrylate	97-63-2					EFSA
09.377	Ethyl oct-3-enoate	1117-65-3	1632	10618			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.379	Ethyl pent-2-enoate	2445-93-4		10623				EFSA
09.380	Ethyl pentadecanoate	41114-00-5		10622				EFSA
09.381	2-Ethylhexyl acetate	103-09-3						EFSA
09.382	Geranyl 2-methylbutyrate	68705-63-5	1820					EFSA
09.383	Geranyl 2-methylcrotonate	7785-33-3	1822	11829				EFSA
09.385	Hept-2-enyl acetate	16939-73-4	4798	10661			2	EFSA
09.386	sec-Hept-4(cis)-enyl acetate	94088-33-2						EFSA
09.387	Heptyl 2-methylbutyrate	50862-12-9		10668				EFSA
09.388	sec-Heptyl acetate	5921-82-4		10802				EFSA
09.390	Heptyl hexanoate	6976-72-3		10666				EFSA
09.391	sec-Heptyl hexanoate	6624-58-4		10805				EFSA
09.392	Heptyl isovalerate	56423-43-9		10667				EFSA
09.394	E-Hex-2-enyl acetate	2497-18-9	1355	643	At least 90%; secondary component 5-6% (Z)-2-hexenyl acetate		2	EFSA
09.395	E - Hex-2-	53398-80-4	378	11830			2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	enyl propionate							
09.396	Hex-2-enyl butyrate	53398-83- <del>1</del> 375					2	EFSA
09.397	Hex-2-enyl formate	53398-78- <del>0</del> 376	11858				2	EFSA
09.398	Hex-(2E)-enyl hexanoate.	53398-86- <del>0</del> 381			At least 93%; secondary components 2-3% hexanoic acid and 2-3% 2-hexenol		2	EFSA
09.399	(2E)-Hexenyl isovalerate	68698-59- <del>9</del> 377					2	EFSA
09.400	Hex-2-enyl phenylacetate	68133-78-8					2	EFSA
09.401	Isopentyl acetoacetate	2308-18-1598	227					JECFA
09.402	Ethyl acetoacetate	141-97-9	595	240				JECFA
09.403	Butyl acetoacetate	591-60-6	596	241				JECFA
09.404	Isobutyl acetoacetate	7779-75-1597		242				JECFA
09.405	Geranyl acetoacetate	10032-00-599		243				JECFA
09.406	Benzyl 3-oxobutyrate	5396-89-4848		244				EFSA
09.407	2-Phenethyl 3-methylcrotonate	42078-65-998		246				EFSA
09.408	Isobutyl 2-methylbut-2(cis)-enoate	7779-81-91213		247				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.409	Ethyl 2-methylbutyrate	7452-79-1206	265				JECFA
09.410	Allyl 2-ethylbutyrate	7493-69-811	281			2	JECFA/ EFSA
09.411	Allyl cyclohexanebutyrate	7493-65-414	283			2	JECFA/ EFSA
09.412	Methyl isobutyrate	547-63-7	185	287			JECFA
09.413	Ethyl isobutyrate	97-62-1	186	288			JECFA
09.414	Propyl isobutyrate	644-49-5	187	289			JECFA
09.415	Isopropyl isobutyrate	617-50-5	309	290			JECFA
09.416	Butyl isobutyrate	97-87-0	188	291			JECFA
09.417	Isobutyl isobutyrate	97-85-8	194	292			JECFA
09.418	Pentyl isobutyrate	2445-72-9		293			EFSA
09.419	Isopentyl isobutyrate	2050-01-349		294			JECFA
09.420	Heptyl isobutyrate	2349-13-5190		295			JECFA
09.421	Citronellyl isobutyrate	97-89-2	71	296	At least 92%; secondary component 3-5% citronellol		JECFA
09.423	Linalyl isobutyrate	78-35-3	362	298			JECFA
09.424	Neryl isobutyrate	2345-24-673		299	At least 92%; secondary components 2-5% nerol and 1-2% geraniol		JECFA
09.425	Terpinyl 2-methylpropionate	7774-65-4371		300			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.426	Benzyl isobutyrate	103-28-6	844	301				EFSA
09.427	Phenethyl isobutyrate	103-48-0	992	302				EFSA
09.428	3-Phenylpropyl isobutyrate	103-58-2	640	303				EFSA
09.429	p-Tolyl isobutyrate	103-93-5	701	304				EFSA
09.430	Piperonyl isobutyrate	5461-08-5	895	305				EFSA
09.431	Geranyl isobutyrate	2345-26-8	72	306				JECFA
09.432	Methyl 4-methylvalerate	2412-80-8	216	322				JECFA
09.433	Ethyl lactate	97-64-3	931	371				EFSA
09.434	Butyl lactate	138-22-7	932	372				EFSA
09.435	Ethyl 4-oxovalerate	539-88-8	607	373				JECFA
09.436	Butyl 4-oxovalerate	2052-15-5	608	374				JECFA
09.439	Diethyl malate	7554-12-3	620	382				JECFA
09.441	Butyl ethyl malonate	17373-84-6	615	384				JECFA
09.442	Ethyl pyruvate	617-35-6	938	430				EFSA
09.443	Isopentyl pyruvate	7779-72-8	939	431				EFSA
09.444	Diethyl succinate	123-25-1	617	438				JECFA
09.445	Dimethyl succinate	106-65-0	616	439				JECFA
09.446	Diethyl tartrate	87-91-2	622	440				JECFA
09.447	Ethyl isovalerate	108-64-5	196	442				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.448	Propyl isovalerate	557-00-6	197	443				JECFA
09.449	Butyl isovalerate	109-19-3	198	444				JECFA
09.450	Isopropyl isovalerate	32665-23-9	110	445				JECFA
09.451	Octyl isovalerate	7786-58-5	200	446				JECFA
09.452	Nonyl isovalerate	7786-47-2	201	447				JECFA
09.453	Geranyl isovalerate	109-20-6	75	448				JECFA
09.454	Linalyl isovalerate	1118-27-0	363	449				JECFA
09.455	Menthyl isovalerate	16409-46-4	432	450				JECFA
09.456	DL-Bornyl isovalerate	76-50-6	1393	451				EFSA
09.457	DL-Isobornyl isovalerate	7779-73-9	1394	452				EFSA
09.458	Benzyl isovalerate	103-38-8	845	453				EFSA
09.459	Cinnamyl isovalerate	140-27-2	654	454				EFSA
09.460	Citronellyl isovalerate	68922-10-1		455				SCF/ CoE
09.461	Terpinyl isovalerate	1142-85-4	372	456				JECFA
09.462	Methyl isovalerate	556-24-1	195	457				JECFA
09.463	3-Methylbutyl 3-methylbutyrate	659-70-1	50	458				JECFA
09.464	Cyclohexyl isovalerate	7774-44-9	1096	459				EFSA
09.465	Rhodinyl isovalerate	7778-96-3	77	460				JECFA
09.466	Phenethyl isovalerate	140-26-1	994	461				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.467	3-Phenylpropyl isovalerate	5452-07-3641		462				EFSA
09.468	alpha-Pentylcinnamyl isovalerate	7493-80-3678		463				EFSA
09.469	Allyl cyclohexanevalerate	7493-68-715		474			2	JECFA/ EFSA
09.470	Cinnamyl isobutyrate	103-59-3	653	496				EFSA
09.471	Neryl isovalerate	3915-83-176		508				JECFA
09.472	Isobutyl isovalerate	589-59-3	203	568				JECFA
09.473	Octyl isobutyrate	109-15-9	192	593				JECFA
09.474	Dibutyl sebacate	109-43-3	625	622	At least 93%; secondary components 2-4% butyl ester of C14-, C16-, and C18-fatty acids			JECFA
09.475	Diethyl sebacate	110-40-7	624	623				JECFA
09.476	Ethyl 3-phenyl-3-oxopropionate	94-02-0	834	627	At least 88%; secondary component 7-9% ethyl benzoate			EFSA
09.478	Hexyl isobutyrate	2349-07-7189		646				JECFA
09.480	o-Tolyl isobutyrate	36438-54-700		681				EFSA
09.481	Diethyl carbonate	105-58-8		710				SCF/ CoE



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.482	Allyl cyclohexaneacetate	4728-82-912	2070			2	JECFA/EFSA
09.483	Methyl 2-methylbutyrate	868-57-5	205	2085	At least 92%; secondary component 5-7% methyl isovalerate		JECFA
09.484	1,1-Dimethyl-3-phenylpropyl isobutyrate	10031-71-7	1461	2086			EFSA
09.485	2-Phenylpropyl isobutyrate	65813-53-8	1470	2087			EFSA
09.486	1-Phenethyl isobutyrate	7775-39-5	804	2088			EFSA
09.487	2-Phenoxyethyl isobutyrate	103-60-6	1028	2089			EFSA
09.488	Ethyl cyclohexanepropionate	10094-36-9	966	2095			EFSA
09.489	Allyl isovalerate	2835-39-47		2098		2	JECFA / EFSA
09.490	Diethyl malonate	105-53-3	614	2106			JECFA
09.491	Butyl-O-butyryllactate	7492-70-8	935	2107			EFSA
09.492	Allyl cyclohexanehexanoate	7493-66-5	516	2180		2	JECFA/EFSA
09.493	Allyl 2-methylcrotonate	7493-71-2	210	2183		2	JECFA/EFSA
09.494	Benzyl 2-methylcrotonate	37526-88-8	846	2184			EFSA
09.495	Ethyl 2-methylcrotonate	5837-78-5	1824	2185			EFSA
09.496	Phenethyl 2-methylcrotonate	55719-85-2	997	2186			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.498	Allyl cyclohexanepropionate	2705-87-513	2223			2	JECFA/ EFSA
09.499	Pentyl isovalerate	25415-62-7	2224				EFSA
09.501	Ethyl 2-acetyl-3-phenylpropionate	620-79-1 835	2241				EFSA
09.502	Ethyl butyryl lactate	71662-27-6	2242				EFSA
09.505	Hex-3-enyl isovalerate	10032-11-802	2344				JECFA
09.506	Hex-3-enyl 2-methylbutyrate	10094-41-211	2345				JECFA
09.507	Hexyl 2-methylbutyrate	10032-15-208	4132				JECFA
09.508	Benzyl 2,3-dimethylcrotonate	7492-69-5847	11868				EFSA
09.509	1-Methyl-1-phenethyl isobutyrate	7774-60-91657	11828				EFSA
09.510	Ethyl aconitate	1321-30-8628	11845				JECFA
09.511	Tributyl acetylcitrate	77-90-7 630					JECFA
09.512	Triethyl citrate	77-93-0 629	11762				JECFA
09.513	Isopropyl 2-methylcrotonate	1733-25-1312	10733				JECFA
09.514	Ethyl 2,4-dioxohexanoate	13246-52-603	11903				JECFA
09.515	Geranyl 2-ethylbutyrate	73019-14-48	11667				JECFA
09.516	2-Methylbutyl 2-methylbutyrate	2445-78-5212	10773	At least 90%; secondary component			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					5-7% 2-methylbutyl 3-methylbutyrate		
09.517	Methyl citronellate	2270-60-2354		10781			JECFA
09.518	4-Methylphenyl isovalerate	55066-56-302		10545			EFSA
09.519	Butyl 2-methylbutyrate	15706-73-207		10534			JECFA
09.520	Methyl 3-oxo-2-pentyl-1-cyclopentylacetate	24851-98-7		10785			EFSA
09.521	Methyl-3-oxo-2-pent-2-enyl-1-cyclopentylacetate	39924-52-1400		10821	Mixture of isomers: trans-trans isomer: 2-8%, trans-cis isomer: 84-92%, cis-cis isomer: 3-8%. Sum of three main peaks: 98-100%		EFSA
09.522	Ethyl 3-hydroxybutyrate	5405-41-4594		10596			JECFA
09.523	Dodecyl isobutyrate	6624-71-1193		10563			JECFA
09.524	Ethyl 2-methylpent-3-enoate	1617-23-8350		10612			JECFA
09.525	Maltyl isobutyrate	65416-14-0482		10739		2	EFSA
09.526	Ethyl 2-methylvalerate	39255-32-814		10616			JECFA
09.527	Ethyl 2-methylpent-4-enoate	53399-81-851		10613			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.528	trans-3-Heptenyl isobutyrate		191	10663				JECFA
09.529	Hexyl isovalerate	10032-13-099		10692				JECFA
09.530	Isopentyl 2-methylbutyrate	27625-35-61		10721				JECFA
09.531	2-Methylbutyl isovalerate	2445-77-4204		10772				JECFA
09.532	Methyl 3-hydroxyhexanoate	21188-58-000		10812				JECFA
09.533	Ethyl brassylate	105-95-3	626	10571				JECFA
09.534	Ethyl cyclohexanecarboxylate	3289-28-9963		11916				EFSA
09.535	Ethyl 3-hydroxyhexanoate	2305-25-1601		11764				JECFA
09.536	Methyl cyclohexanecarboxylate	4630-82-4962		11920				EFSA
09.537	Octyl 2-methylbutyrate	29811-50-209		10866				JECFA
09.538	Phenethyl 2-methylbutyrate	24817-51-993		10883				EFSA
09.539	Oct-3-yl 2-methylcrotonate	94133-92-448						JECFA
09.540	Ethyl 2-methylpenta-3,4-dienoate	60523-21-953						EFSA
09.541	Ethyl 3-methylvalerate	5870-68-8215						JECFA
09.542	Ethyl 3-oxohexanoate	3249-68-1602						JECFA
09.543	Glyceryl 5-hydroxydecanoate	26446-31-923		10648	Mixture of 9-11% glycerol; 24-30% delta-decalactone;			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

					25-34% monoglyceride, 13-21% diglyceride and 6-11% triglyceride		
09.544	Glyceryl 5- hydroxydodecanoate	26446-32- <del>924</del>		10649	Mixture of 5-8% glycerol; 37-47% delta- dodecalactone; 16-28% monoglyceride; 11-19% diglyceride and 3-7% triglyceride		EFSA
09.545	Hex- (3Z)- enyl lactate	61931-81- <del>934</del>		10681			EFSA
09.546	Hexyl-2- methylpent- (3 and 4)- enoate	58625-95- <del>952</del>					JECFA
09.547	Isopropyl 2- methylbutyrate	66576-71- <del>210</del>					JECFA
09.548	Methyl 2- hydroxy-4- methylvalerate	40348-72- <del>990</del>					JECFA
09.549	Methyl 2- methylvalerate	2177-77-7213					JECFA
09.550	Methyl 2-oxo-3- methylvalerate	3682-42-6591					JECFA
09.551	l- Menthyl lactate	59259-38- <del>033</del>					JECFA
09.552	3- Oxodecanoic	91052-69- <del>014</del>		10650			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	acid glyceride						
09.553	3- Oxododecanoic acid glyceride	91052-70- <del>915</del>	10651				EFSA
09.554	3- Oxohexadecanoic acid glyceride	91052-71- <del>917</del>	10652				EFSA
09.555	3- Oxohexanoic acid glyceride	91052-72- <del>910</del>	10653				EFSA
09.556	3- Oxooctanoic acid glyceride	91052-68- <del>911</del>	10654				EFSA
09.557	3- Oxotetradecanoic acid glyceride	91052-73- <del>916</del>	10655				EFSA
09.558	Dimethyl malonate	108-59-8	11754				EFSA
09.559	Hex-3(cis) enyl 2- methylcrotonate	<del>67883-79-8277</del>					EFSA
09.560	Hex-3(cis) enyl anisate	121432-33-5					EFSA
09.561	Hex-3(cis) enyl anthranilate	<del>65405-76-1538</del>	10676				EFSA
09.562	trans-3- Hexenyl formate	56922-80-6				1	EFSA
09.563	Hex-3(cis) enyl isobutyrate	<del>41519-23-1275</del>	11783				EFSA
09.564	Hex-3(cis) enyl propionate	<del>33467-74-1274</del>	10683				EFSA
09.565	(3Z)- Hexenyl 2- oxopropionate	68133-76- <del>6846</del>	10684				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.566	(3Z)-Hexenyl (E)-but-2-enoate	65405-80-3276					EFSA
09.567	Hex-(3Z)-enyl decanoate	85554-69-4					EFSA
09.568	(3Z)-hexenyl (E)-hexenoate	53398-87-1279			At least 86%; secondary components 6-7% 3-hexenyl 3-hexenoate and 4-5% 1-hexenyl 2-hexenoate		EFSA
09.569	Hex-(3Z)-enyl octanoate	61444-41-5					EFSA
09.570	(Z)-Hex-3-enyl salicylate	65405-77-8	10685				EFSA
09.571	(3Z)-hexenyl valerate	35852-46-1278	10686				EFSA
09.572	Hex-(4Z)-enyl acetate	42125-17-7					EFSA
09.573	Hexa-2,4-dienyl acetate	1516-17-21780	10675			2	EFSA
09.574	Hexadecyl acetate	1629-70-9					EFSA
09.575	(3Z)-Hexenyl heptanoate	61444-39-1					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.578	Hexyl crotonate	1617-25-0	10688				EFSA
09.579	Hexyl dodecanoate	34316-64-8					EFSA
09.580	Hexyl lactate	20279-51-0					EFSA
09.581	Hexyl salicylate	6259-76-3	10695				EFSA
09.582	Hexyl tetradecanoate	42231-99-2					EFSA
09.583	Hexyl valerate	1117-59-5	10696				EFSA
09.584	Isobornyl isobutyrate	85586-67-0	0863				EFSA
09.585	Isobutyl 2-methylbutyrate	2445-67-2	10710				EFSA
09.586	Isobutyl 2-methylprop-2-enoate	97-86-9					EFSA
09.587	Isobutyl decanoate	30673-38-2	10707				EFSA
09.588	Isobutyl dodecanoate	37811-72-6	10708				EFSA
09.589	Isobutyl hexadecanoate	110-34-9	10715				EFSA
09.590	Isobutyl lactate	585-24-0	10709				EFSA
09.592	Isobutyl octadecanoate	646-13-9					EFSA
09.593	Isobutyl octanoate	5461-06-3	10714				EFSA
09.594	Isobutyl tetradecanoate	25263-97-2	10712				EFSA
09.596	(Z)-But-2-enoate	10482-55-0					EFSA
09.598	Isopentyl decanoate	2306-91-4					EFSA
09.599	Isopentyl heptanoate	109-25-1	10719				EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.600	Isopentyl hexadecanoate	81974-61-0	10723				EFSA
09.601	Isopentyl lactate	19329-89-6	10720				EFSA
09.602	Isopentyl tetradecanoate	62488-24-8	10722				EFSA
09.603	Isopropyl crotonate	6284-46-4	10729				EFSA
09.604	Isopropyl decanoate	2311-59-3	10730				EFSA
09.605	Isopropyl dodecanoate	10233-13-3					EFSA
09.606	Isopropyl hexadecanoate	142-91-6	10732				EFSA
09.608	Isopropyl octanoate	5458-59-3	10731				EFSA
09.609	Isopropyl valerate	18362-97-5					EFSA
09.611	4-Isopropylbenzyl acetate	59230-57-8					EFSA
09.612	Lavandulyl acetate	25905-14-0					EFSA
09.614	Linalyl valerate	10471-96-2	10738				EFSA
09.615	p-Menth-1-en-9-yl acetate	28839-13-0	10748				EFSA
09.616	mono-Menth-3-yl succinate	77341-67-4					JECFA
09.617	p-Menthan-8-yl acetate	58985-18-5					EFSA
09.618	Menthyl formate	2230-90-2	10751				EFSA
09.619	(1R,2S,5R)-Menthyl hexanoate	6070-16-2					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.620	Menthyl phenylacetate	1154-92-3					EFSA
09.621	(1R,2S,5R)-Menthyl salicylate	89-46-3					EFSA
09.623	Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	4707-47-5					EFSA
09.624	Methyl 2-methylcrotonate	6622-76-0					EFSA
09.625	Methyl 2-methylpent-3(E)-enoate	33603-30-4					EFSA
09.626	Methyl 2-oxopropionate	600-22-6	10848				EFSA
09.629	Methyl 3-acetoxyhexanoate	21188-60-3	10755				EFSA
09.631	Methyl 4-methylbenzoate	99-75-2					EFSA
09.632	Methyl 5-acetoxyhexanoate	35234-22-1719	10756				EFSA
09.633	Methyl 5-hydroxydecanoate	101853-47-8					EFSA
09.634	Methyl acetoacetate	105-45-3					EFSA
09.636	Methyl crotonate	623-43-8					EFSA
09.637	Methyl dec-2-enoate	2482-39-5	11799				EFSA
09.638	Methyl dec-(4Z)-enoate	7367-83-1	10784				EFSA
09.639	Methyl (E,Z)-	4493-42-91191		At least 93%; secondary			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

	deca-2,4-dienoate				component 2-5% (E,E) methyl 2,4-decadienoate		
09.640	Methyl deca-4,8-dienoate	1191-03-3		10782			EFSA
09.641	Methyl dodec-(2E)-enoate	6208-91-9		10792			EFSA
09.642	Methyl formate	107-31-3		10795			EFSA
09.643	Methyl geranate	1189-09-9		10797			EFSA
09.644	(S)-Methyl lactate	27871-49-4					EFSA
09.645	Mixture of methyl linoleate and methyl linolenate		346	713, 714	44-46% methyl linolenate; 18-20% methyl linoleate; 22-25% methyl stearate and methyl oleate; 7-8% methyl palmitate		SCF/ CoE/ JECFA
09.647	Methyl methacrylate	80-62-6	1834				EFSA
09.648	Methyl N,N-dimethylantranilate	10072-05-6	551				EFSA
09.649	Methyl N-acetylantranilate	2719-08-6	1550				EFSA
09.650	Methyl N-formylantranilate	41270-80-8	549				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.651	Methyl octadecanoate	112-61-8		10849				EFSA
09.652	Methyl oleate	112-62-9		10836				EFSA
09.655	3-Methylbut-3-enyl acetate	5205-07-2	1269					EFSA
09.656	3-Methylbut-3-enyl benzoate	5205-12-9						EFSA
09.657	1-Methylbutyl acetate	626-38-0	1146	10761				EFSA
09.658	1-Methylbutyl butyrate	60415-61-4	142	10763				EFSA
09.659	2-Methylbutyl butyrate	51115-64-1						EFSA
09.660	2-Methylbutyl decanoate	68067-33-4		10765				EFSA
09.661	2-Methylbutyl formate	35073-27-9						EFSA
09.662	2-Methylbutyl hexanoate	2601-13-0		10768				EFSA
09.663	2-Methylbutyl isobutyrate	2445-69-4		10770				EFSA
09.664	2-Methylbutyl octanoate	67121-39-5		10776				EFSA
09.665	2-Methylbutyl propionate	2438-20-2		10778				EFSA
09.666	2-Methylbutyl tetradecanoate	93805-23-3		10774				EFSA
09.670	Myrtanyl acetate	29021-36-1						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.671	(3S,6Z)- Nerolidyl acetate	56001-43-5	10862				EFSA
09.672	Non- (3Z)- enyl acetate	13049-88-2					EFSA
09.673	Non- (6Z)- enyl acetate	76238-22-7					EFSA
09.674	(E,Z)-3,6- Nonadien-1- ol, acetate	211323-051085					EFSA
09.676	sec- Octyl acetate	2051-50-5	10799				EFSA
09.677	Octyl hexanoate	4887-30-3	10865				EFSA
09.678	Pent-2- enyl hexanoate	74298-89-8795				2	EFSA
09.679	Pentyl 2- methylbutyrate	68039-26-9	10875				EFSA
09.680	Pentyl 2- methylisocrotonate	7785-63-9					EFSA
09.681	Pentyl dodecanoate	5350-03-8					EFSA
09.682	Pentyl hexadecanoate	31148-31-9					EFSA
09.683	Pentyl lactate	6382-06-5					EFSA
09.684	(E)-2- Phenylethyl 2- butenoate	68141-20-8	10880				EFSA
09.685	2- Phenethyl decanoate	61810-55-7	10881				EFSA
09.686	Phenethyl lactate	155449-46-0					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.687	2-Phenoxyethyl butyrate	23511-70-8					EFSA
09.688	Phenyl acetate	122-79-2	734	10878			EFSA
09.689	Phenyl salicylate	118-55-8	736	11814			EFSA
09.690	3-Phenylpropyl butyrate	7402-29-1					EFSA
09.691	Phytyl acetate	10236-16-5	833				EFSA
09.692	Prenyl acetate	1191-16-8	1827	11796			EFSA
09.693	Prenyl benzoate	5205-11-8					EFSA
09.694	Prenyl formate	68480-28-4	826				EFSA
09.695	Prenyl isobutyrate	76649-23-5	828				EFSA
09.696	Prenyl salicylate	68555-58-8					EFSA
09.698	Propyl 2-methylbutyrate	37064-20-3		10891			EFSA
09.699	Propyl crotonate	10352-87-1					EFSA
09.700	Propyl decanoate	30673-60-0					EFSA
09.701	Allyl phenoxyacetate	7493-74-5	18	228		2	JECFA/ EFSA
09.702	Propyl phenylacetate	4606-15-9	1010	229			EFSA
09.703	Octyl phenylacetate	122-45-2	1017	230			EFSA
09.704	(2E)-Geranyl phenylacetate	102-22-7	1020	231			EFSA
09.705	Benzyl phenylacetate	102-16-9	849	232			EFSA
09.706	Anisyl phenylacetate	102-17-0	876	233			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.707	Phenethyl phenylacetate	102-20-5	999	234				EFSA
09.708	Cinnamyl phenylacetate	7492-65-1	655	235				EFSA
09.709	p-Tolyl phenylacetate	101-94-0	705	236				EFSA
09.710	Isoeugenyl phenylacetate	120-24-1	1263	237				EFSA
09.711	Guaiacyl phenylacetate	4112-89-4	719	238				EFSA
09.712	Santalyl phenylacetate	1323-75-7	1022	239			2	EFSA
09.713	Methyl 4-methoxybenzoate	121-98-2	884	248				EFSA
09.714	Ethyl 4-methoxybenzoate	94-30-4	885	249				EFSA
09.715	Methyl anthranilate	134-20-3	1534	250				EFSA
09.716	Ethyl anthranilate	87-25-2	1535	251				EFSA
09.717	Butyl anthranilate	7756-96-9	1536	252				EFSA
09.718	Isobutyl anthranilate	7779-77-3	1537	253				EFSA
09.719	Allyl anthranilate	7493-63-2	220	254			2	JECFA/ EFSA
09.721	Linalyl anthranilate	7149-26-0	1540	256				EFSA
09.722	Cyclohexyl anthranilate	7779-16-0	1541	257				EFSA
09.723	Phenethyl anthranilate	133-18-6	1543	258				EFSA
09.724	alpha-Terpinyl anthranilate	14481-52-8	542	259				EFSA
09.725	Methyl benzoate	93-58-3	851	260				EFSA
09.726	Ethyl benzoate	93-89-0	852	261				EFSA
09.727	Benzyl benzoate	120-51-4	24	262				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.728	Ethyl 4-phenylbutyrate	10031-93-3458	307				EFSA
09.729	Methyl 4-phenylbutyrate	2046-17-51464	308				EFSA
09.730	Ethyl cinnamate	103-36-6 659	323				EFSA
09.731	Propyl cinnamate	7778-83-8660	324				EFSA
09.732	Isopropyl cinnamate	7780-06-5661	325				EFSA
09.733	Butyl cinnamate	538-65-8 663	326				EFSA
09.734	Isobutyl cinnamate	122-67-8 664	327				EFSA
09.735	Pentyl cinnamate (mixture of isomers)	3487-99-8	328				EFSA
09.736	Linalyl cinnamate	78-37-5 668	329				EFSA
09.737	(S)-Terpinyl cinnamate	10024-56-369	330				EFSA
09.738	Benzyl cinnamate	103-41-3 670	331				EFSA
09.739	Cinnamyl cinnamate	122-69-0 673	332				EFSA
09.740	Methyl cinnamate	103-26-4 658	333				EFSA
09.741	Allyl cinnamate	1866-31-519	334			2	JECFA/ EFSA
09.742	Isopentyl cinnamate	7779-65-9665	335				EFSA
09.743	Phenethyl cinnamate	103-53-7 671	336				EFSA
09.744	Cyclohexyl cinnamate	7779-17-1667	337				EFSA
09.745	3-Phenylpropyl cinnamate	122-68-9 672	338				EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.746	Methyl 3-phenylpropionate	103-25-3	643	427				EFSA
09.747	Ethyl 3-phenylpropionate	2021-28-5	644	429				EFSA
09.748	Ethyl salicylate	118-61-6	900	432				EFSA
09.749	Methyl salicylate	119-36-8	899	433				EFSA
09.750	Isobutyl salicylate	87-19-4	902	434				EFSA
09.751	Isopentyl salicylate	87-20-7	903	435				EFSA
09.752	Benzyl salicylate	118-58-1	904	436				EFSA
09.753	Phenethyl salicylate	87-22-9	905	437				EFSA
09.755	Isopentyl benzoate	94-46-2	857	562	65-68% 3-methylbutyl benzoate; 30-35% 2-methylbutyl benzoate; 1-5% n-pentyl benzoate			EFSA
09.756	Isobornyl phenylacetate	94022-06-7		566				EFSA
09.757	Isobutyl benzoate	120-50-3	856	567				EFSA
09.758	Methyl p-tert-butylphenylacetate	3549-23-3	1025	577				EFSA
09.761	Pentyl phenylacetate	5137-52-0		612				EFSA
09.762	Pentyl salicylate	2050-08-0		613				EFSA
09.763	Butyl salicylate	2052-14-4	901	614				EFSA
09.764	Ethyl N-ethylanthranilate	38446-21-8	547	629				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.765	Ethyl N-methylanthranilate	35472-56-1546	632				EFSA
09.766	Eugenyl benzoate	531-26-0	1533	636			EFSA
09.767	Geranyl benzoate	94-48-4	860	639			EFSA
09.768	Hexyl benzoate	6789-88-4854		645			EFSA
09.769	Isobutyl N-methylanthranilate	65505-24-0548		649			EFSA
09.770	Isopropyl benzoate	939-48-0	855	652			EFSA
09.771	Linalyl benzoate	126-64-7	859	654			EFSA
09.772	Linalyl phenylacetate	7143-69-31019		655			EFSA
09.774	Phenethyl benzoate	94-47-3		667			EFSA
09.776	Propyl benzoate	2315-68-6853		677			EFSA
09.779	Butyl benzoate	136-60-7		740			EFSA
09.780	Cinnamyl benzoate	5320-75-2760		743			EFSA
09.781	Methyl N-methylanthranilate	85-91-6	1545	756			EFSA
09.782	Heptyl cinnamate	10032-08-366		2104			EFSA
09.783	Methyl phenylacetate	101-41-7	1008	2155			EFSA
09.784	Ethyl phenylacetate	101-97-3	1009	2156			EFSA
09.785	Citronellyl phenylacetate	1139-70-8	1021	2157			EFSA
09.786	Isopropyl phenylacetate	4861-85-21011		2158			EFSA
09.787	Butyl phenylacetate	122-43-0	1012	2159			EFSA
09.788	Isobutyl phenylacetate	102-13-6	1013	2160			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.789	3-Methylbutyl phenylacetate	102-19-2	1014	2161	62-64% n-amyl; 33-36% isoamyl			EFSA
09.790	Allyl phenylacetate	1797-74-6	617	2162			2	JECFA/ EFSA
09.791	(3S)-Rhodinyll phenylacetate	10486-14-3	3018	2163				EFSA
09.796	Methyl 2-methoxybenzoate	606-45-1	880	2192				EFSA
09.797	Ethyl (p-tolyloxy)acetate	67028-40-4	4027	2243				EFSA
09.798	Ethyl vanillate	617-05-0		2302				EFSA
09.799	Methyl vanillate	3943-74-6		2305				EFSA
09.801	2-Naphthyl anthranilate	63449-68-3	3544	11862				EFSA
09.802	Ethyl 2-ethyl-3-phenylpropionate	2983-36-0	1475	10587				EFSA
09.803	Propylene glycol dibenzoate	19224-26-8	862	10890				EFSA
09.804	Hexyl phenylacetate	5421-17-0	1015	10694				EFSA
09.805	Hex-3-enyl phenylacetate	42436-07-7	1016	10682				EFSA
09.806	(Z)-Hex-3-enyl benzoate	25152-85-8	858	11778	93-97% cis-hexenyl benzoate; 1-2% trans-3-hexenyl benzoate			EFSA
09.807	o-Tolyl salicylate	617-01-6	907					EFSA
09.808	Guaiyl acetate	134-28-1		10659				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.809	p-Mentha-1,8(10)-dien-9-yl acetate	15111-97-4		10743			2	EFSA
09.811	Vanillin isobutyrate	20665-85-8	891					EFSA
09.812	Glyceryl tribenzoate	614-33-5	861	10656				EFSA
09.813	Propyl dodecanoate	3681-78-5						EFSA
09.814	Propyl hexadecanoate	2239-78-3		10893				EFSA
09.815	Propyl lactate	616-09-1						EFSA
09.816	Propyl octanoate	624-13-5		10892				EFSA
09.818	3,7,11-Trimethyldodeca-2,6,10-trienyl acetate	29548-30-9	831					EFSA
09.819	3,5,5-Trimethylhexyl acetate	58430-94-7						EFSA
09.820	Undecyl acetate	1731-81-3		10906				EFSA
09.821	Vetiveryl acetate	117-98-6	1867	11887			2	EFSA
09.822	iso-Propenyl acetate	108-22-5	1835					EFSA
09.824	Ethyl 2-acetylbutyrate	607-97-6						EFSA
09.825	Pentyl benzoate	2049-96-9		2307				EFSA
09.829	Ethyl cyclohexyl acetate	5452-75-5		218				EFSA
09.830	Terpineol acetate	8007-35-0	368	205				JECFA
09.831	Ethyl 3,7-dimethyl-2,6-octadienoate	13058-12-3						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.832	Ethyl 3-acetohexanoate	21188-61-4	10566				EFSA
09.833	iso-Propyl 4-oxopentanoate	21884-26-4					EFSA
09.835	Benzyl decanoate	42175-41-7					EFSA
09.836	3-Phenylpropyl benzoate	60045-26-3					EFSA
09.837	3-Phenylpropyl 3-phenylpropionate	60045-27-4					EFSA
09.838	(3Z)-Hexenyl methyl carbonate	67633-96-9					EFSA
09.839	Decyl 3-methylbutyrate	72928-48-4					EFSA
09.840	Propyl 2,4-decadienoate	84788-08-9	1194	10889			EFSA
09.841	2-Hexenyl octanoate	85554-72-9	796			2	EFSA
09.842	1-Menthol ethylene glycol carbonate	156324-78-4	43				JECFA
09.843	Menthol 1-and 2-propylene glycol carbonate	30304-82-6				1	EFSA
09.846	3-Hexenyl formate	2315-09-5	1272	2153			EFSA
09.848	(-)-bornyl acetate	5655-61-8	1864				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.850	Ethyl trans-2- hexenoate	27829-72-1808	631				EFSA
09.852	2- Methylbutyl 2- hydroxybenzoate	51115-63-0					EFSA
09.854	cis-3- Hexenyl 2- methylbutanoate	53398-85-9				1	EFSA
09.855	(3E)- Hexenyl hexanoate	56922-82-8					EFSA
09.858	Phenylmethyl 2- methyl-2- butenoate	67674-41-3				1	EFSA
09.862	Ethyl 3- acetoxy octanoate	85554-66-1					EFSA
09.865	Hexyl (9Z)- octadecenoate	20290-84-0					EFSA
09.866	Allyl valerate	6321-45-5				2	EFSA
09.870	Carvyl-3- methylbutyrate	94386-39-7					EFSA
09.871	Citronellyl decanoate	172934-06-6					EFSA
09.872	Citronellyl dodecanoate	172934-07-7					EFSA
09.874	Di(2- methylbutyl) malate	253596-99-5					EFSA
09.878	Eugenyl isovalerate	61114-24-1532					EFSA
09.880	Hept-4- enyl-2 butyrate	233666-01-8					EFSA
09.884	Hex-3- enyl-2- ethylbutyrate	233666-04-1					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

09.885	Hex-3-enyl hexadecanoate	233666-03-0					EFSA
09.888	Isobornyl 2-methylbutyrate	94200-10-9869					EFSA
09.893	2-Isopropyl-5-methylphenyl formate	406700-80-9					EFSA
09.894	2-Methoxy-4-(prop-1-enyl)phenyl 3-methylbutyrate	61114-23-6					EFSA
09.895	4-Methoxybenzyl-2-methylpropionate	71172-26-4					EFSA
09.897	3-Methylbut-3-en-1-yl butyrate	54702-13-5					EFSA
09.898	3-Methylbut-3-en-1-yl hexanoate	53655-22-4					EFSA
09.899	Myrtenyl-2-methylbutyrate	238530-44-6				2	EFSA
09.900	Myrtenyl-3-methylbutyrate	33900-84-4				2	EFSA
09.916	Ethyl 3-hydroxyoctanoate	7367-90-0	10603				EFSA
09.917	4-Pentenyl acetate	1576-85-81270					EFSA
09.918	cis-4-Decenyl acetate	67452-27-1288					EFSA
09.919	Ethyl 3-acetoxy-2-methylbutyrate	139564-431518					EFSA
09.921	Ethyl 5-hexenoate	54653-25-1273					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.922	(4Z)- Ethylheptenoate	39924-27-1281					EFSA
09.923	Hept-2- yl butyrate	39026-94-3144					EFSA
09.924	3-Heptyl acetate (mixture of R and S)	5921-83-51143					EFSA
09.925	Nonan-3- yl acetate	60826-15-5145					EFSA
09.926	Octan-3- yl formate	84434-65-1					EFSA
09.927	Rhodinyl butyrate	141-15-1 68		At least 85%; secondary component 10-13% rhodinol			JECFA
09.928	(3E)- Hexenyl acetate	3681-82-1					EFSA
09.929	L- Monomenthyl glutarate	220621-22-7					EFSA
09.930	Cyclohexyl 2- methylene-5- (1- methylethenyl) acetate	71660-03-2098					EFSA
09.931	2,6- Dimethyl- octatriene-1- ol acetate	99999-911226				2	EFSA
09.932	(5Z)- Octenylpropionate	196109-181282		At least 93%; secondary components 2-3% (E)-5- Octenyl propionate			EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					and 0.5-1% (Z)-5- Octenol		
09.933	Ethyl vanillin isobutyrate	188417-26953					EFSA
09.934	Methyl (5Z)- Octenoate	41654-15-3630					EFSA
09.935	Dimethyl glutarate	406179-71-3					EFSA
09.936	4,8- Dimethyl- nonadien-2- yl acetate	91418-25-6847				1	EFSA
09.937	Methyl (3Z)- hexenoate	13894-62-7624					EFSA
09.938	6- Methyl-5- hepten-2- yl acetate	19162-00-6838					EFSA
09.939	Ethyl (3Z)- hexenoate	64187-83-3626					EFSA
09.940	Rhodinyl isobutyrate	138-23-8	74	592			JECFA
09.942	2- Methylbutyl-3- methyl-2- butenoate	97890-13-6					EFSA
09.943	Guaiacol propionate	7598-60-9					EFSA
09.944	Guaiacol butyrate	4112-92-9					EFSA
09.945	Guaiacol isobutyrate	723759-62-4					EFSA
09.946	Dihydrogalangal acetate	129319-15-9					EFSA
09.947	(E,Z)-2,6- nonadienyl acetate	68555-65-7188				2	JECFA/ EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

09.948	(2E)-2-nonenyl acetate	30418-89-4				2	EFSA
09.949	L-Menthyl (S)-3-hydroxybutyrate	115869-76-6					EFSA
09.950	Z-5-Octenyl acetate	71978-00-2					EFSA
09.951	Bis(2-ethylhexyl)adipate (dioctyl adipate)	123-79-5	1968				EFSA
10.001	Nonano-1,4-lactone	404-61-0	229	178			JECFA
10.002	Undecano-1,4-lactone	1104-67-6	233	179			JECFA
10.003	Hexadeceno-1,16-lactone	67779-50-2	2240	180			JECFA
10.004	Pentadecano-1,15-lactone	106-03-5	239	181			JECFA
10.005	3-Propylidene-phthalide	17369-59-4	168	494			EFSA
10.006	Butyro-1,4-lactone	496-48-0	219	615			JECFA
10.007	Decano-1,9-lactone	505-86-2	232	621			JECFA
10.008	Dodecano-1,11-lactone	713-95-1	236	624			JECFA
10.009	Dodeceno-1,4-lactone	18679-18-0	249	625			JECFA
10.010	Hexano-1,5-lactone	823-22-3	224	641			JECFA
10.011	Undecano-1,10-lactone	710-04-3	234	688			JECFA
10.012	5-Methylfuran-2(3H)-one	591-12-8	221	731			JECFA
10.013	Pentano-1,4-lactone	408-29-2	220	757			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

10.014	Nonano-1-lactone	3301-94-8	230	2194				JECFA
10.015	Octano-1-lactone	5698-76-0	228	2195				JECFA
10.016	Tetradecano-1-lactone	27115-22-4	238	2196				JECFA
10.017	Decano-1-lactone	4706-14-9	231	2230				JECFA
10.018	4-Butyloctano-1,4-lactone	7774-47-2	227	2231				JECFA
10.019	Dodecano-1-lactone	2305-05-7	235	2240				JECFA
10.020	Heptano-1-lactone	1405-21-5	225	2253				JECFA
10.021	Hexano-1-lactone	4695-06-7	223	2254				JECFA
10.022	Octano-1-lactone	4404-50-7	226	2274				JECFA
10.023	5-Ethyl-3-hydroxy-4-methylfuran-2(5H)-one	698-10-2	222	2300			2	JECFA/ EFSA
10.024	3-Butylidene-phthalide	551-08-6	1170	10083				EFSA
10.025	3-Butylphthalide	6066-49-5	1169	10084				EFSA
10.026	3-Heptyldihydro-5-methyl-2(3H)-furanone	40923-64-6	144	10953				JECFA
10.027	3,7-Dimethyloctano-1,6-lactone	499-54-7	237	11833	At least 90%; secondary component 5-6% 6-hydroxy-3,7-dimethyl-2-octenoic acid lactone			JECFA
10.028	Dodecano-1-lactone	16429-21-3	242					JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

10.029	Decano-1-lactone	6579-78-2241					JECFA
10.030	3-Hydroxy-4,5-dimethylfuran-2(5H)-one	28664-35-243	11834			2	JECFA/ EFSA
10.031	6-Pentyl-2H-pyran-2-one	27593-23-245	10967				EFSA
10.033	Dec-7-eno-1,5-lactone	34686-71-047					JECFA
10.034	5,6-Dihydro-3,6-dimethylbenzofuran-2(4H)-one	80417-97-6163				2	EFSA
10.035	Undec-8-eno-1,5-lactone	68959-28-248					JECFA
10.036	5,6,7,7a-Tetrahydro-3,6-dimethylbenzofuran-2(4H)-one	13341-72-5162				2	EFSA
10.037	5-Hydroxy-2-decenoic acid delta-lactone	54814-64-246					EFSA
10.038	Dec-7-eno-1,4-lactone	67114-38-9					EFSA
10.039	cis-Dec-7-eno-1,4-lactone	63095-33-0					EFSA
10.040	Dec-8-eno-1,5-lactone	32764-98-0					EFSA
10.042	3,4-Dimethyl-5-pentylidene-furan-2(5H)-one	774-64-1	11873	At least 93%; secondary component 1-2% 3,4-dimethyl		2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					5-ketobutanoic acid gamma-lactone		
10.043	2,7-Dimethylocta-5(trans),7-dieno-1,4-lactone	78548-56-8				2	EFSA
10.044	Dodec-2-eno-1,5-lactone	16400-72-4	938		At least 88% 6-heptyl-5,6-dihydro-2H-pyran-2-one; secondary components 3-5% E-6-(3-heptenyl)-5,6-dihydro-2H-pyran-2-one and 1-2% 6-heptyl-3,6-dihydro-2H-pyran-2-one		EFSA
10.045	Heptano-1,3-lactone	3501-90-4		10660			EFSA
10.046	Hex-2-eno-1,4-lactone	2407-43-4				2	EFSA
10.047	Hexadecano-1,20-lactone	109,20-5					EFSA
10.048	Hexadecano-1,16-lactone	730,46-1		10673			EFSA
10.049	Hexadecano-1,17-lactone	7370,44-7		10674			EFSA
10.050	Hexahydro-2,2-dimethyl-2(3H)-benzofuranone	92015-65-1	1161				EFSA
10.051	5-Hexyl-5-methyldihydrofuran-2(3H)-one	7011-83-8	250				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

10.052	3-Methylnonano-1,4-lactone	33673-62-0					EFSA
10.053	3-Methyloctano-1,4-lactone	39212-23-437	10535				JECFA
10.054	Non-2-eno-1,4-lactone	21963-26-8				2	EFSA
10.055	Pentano-1,5-lactone	542-28-9	10907				EFSA
10.056	Phthalide	87-41-2					EFSA
10.057	3a,4,5,7a-Tetrahydro-3,6-dimethylbenzofuran-2(3H)-one	57743-63-2				2	EFSA
10.058	Tridecano-7,13-lactone	7350-92-5	10902				EFSA
10.059	Hexadecan-1,16-lactone	7123-69-3					EFSA
10.060	2-Decen-1,4-lactone	2518-53-8				2	EFSA
10.061	cis-5-Hexenyldihydro-5-methylfuran-2(3H)-one	70851-61-3159					EFSA
10.063	Hexadecan-1,16-lactone	928645-51-4991					EFSA
10.066	Furan-2(5H)-one					2	EFSA
10.068	Pentadecano-1,15-lactone	3253945-8					EFSA
10.069	3-Methyl gamma-decalactone	67663-01-8158			At least 94% (sum of cis and trans isomers); secondary component 1-2%		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					heptan-1-ol			
10.070	4-Methyl-5-hexen-1,4-olide	1073-11-6	1157					EFSA
10.072	Dimethyl-5-benzo-2(3H)-furanone	55817-24-5	167					EFSA
10.168	5,6-Dimethyl-tetrahydropyran-2-one	10413-18-0						EFSA
10.169	5,6,7,7alpha-Tetrahydro-4,4,7alpha-trimethyl-2-(4H)-benzofuranone	16356-74-8	164		At least 90%; secondary components 3-5 % 2,9-dimethyl 3,8-decanedione, 3-5% 4-hydroxy-5,6-oxo-beta-ionone			EFSA
10.170	5-Pentyl-3H-furan-2-one	51352-68-2	1989		Mixture of 3H- and 5H-isomers (2:1)	2		EFSA
11.001	3-Methylbutylamine	107-85-7	1587	512				EFSA
11.002	Isobutylamine	78-81-9	1583	513				EFSA
11.003	Butylamine	109-73-9	1582	524				EFSA
11.004	Propylamine	107-10-8	1580	601				EFSA
11.005	sec-Butylamine	13952-84-6	1584	707				EFSA
11.006	Phenethylamine	104-04-0	1589	708				EFSA
11.007	2-(4-Hydroxyphenyl)ethylamine	51-67-2	1590	709				EFSA
11.008	2-Aminoacetophenone	551-93-9		2041		4		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

11.009	Trimethylamine	75-50-3	1610	10497				EFSA
11.015	Ethylamine	75-04-7	1579	10477				EFSA
11.016	Hexylamine	111-26-2	1588	10478				EFSA
11.017	N-Isopentylidene isopentylamine	35448-31-8	1606					EFSA
11.018	Isopropylamine	75-31-0	1581	10480				EFSA
11.020	2-Methylbutylamine	96-15-1	1586	10484				EFSA
11.021	Pentylamine	110-58-7	1585	11734				EFSA
11.023	Triethylamine	114-44-8	1611	10496				EFSA
11.025	Trimethylamine oxide	114-78-7	1614	10494				EFSA
11.026	Tripropylamine	102-69-2	1612	10495				EFSA
12.001	3-(Methylthio)propionaldehyde	3268-49-3	466	125				JECFA
12.002	Methyl 3-(methylthio)propionate	13532-18-8	472	428				JECFA
12.003	Methanethiol	74-93-1	508	475				JECFA
12.004	Allylthiol	870-23-5	521	476	At least 75%; secondary components 20-25% allyl disulfide and 5-7% allylsulfide			JECFA
12.005	Phenylmethanethiol	100-53-8	526	477				JECFA
12.006	Dimethyl sulfide	75-18-3	452	483				JECFA
12.007	Dibutyl sulfide	544-40-1	455	484				JECFA
12.008	Diallyl disulfide	2179-57-9	572	485	At least 80%; secondary components 10-15% allyl sulfide and			JECFA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					5-7% allyl mercaptan		
12.009	Diallyl trisulfide	2050-87-5587		486	At least 65%; secondary components 20-25% allyl disulfide, 5-7% allylsulfide and 5-7% allyl tetrasulfide	4	JECFA
12.010	Butane-1-thiol	109-79-5	511	526			JECFA
12.012	Diethyl disulfide	110-81-6	1699	533			EFSA
12.013	Dimethyl trisulfide	3658-80-8582		539		4	JECFA
12.014	Dipropyl disulfide	629-19-6	566	540			JECFA
12.015	Dipropyl sulfide	111-47-7		541			SCF/ CoE
12.016	Di-isopropyl sulfide	625-80-9		542			SCF/ CoE
12.017	Ethanethiol	75-08-1	1659	546			EFSA
12.018	S-Ethyl acetothioate	625-60-5	483	11665			JECFA
12.019	Methyl propyl disulfide	2179-60-4565		585			JECFA
12.020	Methyl propyl trisulfide	17619-36-384		586	At least 45%; secondary components 25% dipropyl trisulfide, 12% dipropyl disulfide, 14% dimethyl	4	JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					disulfide and 3% methyl propyl sulfide		
12.021	Allyl propyl disulfide	2179-59-11700	600				EFSA
12.022	Butane-2, dithiol	34532-64-3539	725				JECFA
12.023	Dipropyl trisulfide	6028-61-1585	726			4	JECFA
12.024	3- Mercapto butan-2- ol	37887-04-646	760				JECFA
12.025	Allyl isothiocyanate	57-06-7	1560	2110			EFSA
12.026	Dimethyl disulfide	624-92-0	564	2175			JECFA
12.027	2- Methylbenzene-1- thiol	137-06-4	528	2272			JECFA
12.028	Dicyclohexyl disulfide	2550-40-5575	2320				JECFA
12.029	Cyclopentanethiol	679-07-8516	2321				JECFA
12.030	3- (Methylthio)propyl isothiocyanate	505-79-3	1564	2326			EFSA
12.031	3- Mercapto pentan-2- one	67633-97-660	2327				JECFA
12.032	S- Methyl butanethioate	2432-51-1484	2328				JECFA
12.033	Naphthalen-2- thiol	91-50-1	531	2330			JECFA
12.034	Octane-1,8- dithiol	8191-62-4541	2331				JECFA
12.035	2-,3- and 10- Mercaptopinane		520	2332	Mixture of isomers (about 54 % of 10- isomer,		JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					about 31 % of 2-isomer, about 10 % of 3-isomer)			
12.036	3-[(2-Mercapto-1-methylpropyl)thio]butan-2-ol	54957-02-347	2353					JECFA
12.037	Allyl methyl disulfide	2179-58-0568	11866	At least 90%; secondary components 3-5% dimethyl sulfide and 3-5% diallyl sulfide				JECFA
12.038	8-Mercapto-p-menthan-3-one	38462-22-561	11789			2		JECFA/ EFSA
12.039	2-Mercaptopropionic acid	79-42-5	551	11790				JECFA
12.040	2-Methylthioacetaldehyde	23328-62-465	11686					JECFA
12.041	1-(Methylthio)butan-2-one	13678-58-496	11543					JECFA
12.042	2-(Methylthio)phenol	1073-29-6503	11553					JECFA
12.043	Diphenyl disulfide	882-33-7	578	11757				JECFA
12.044	Prop-1-enyl propyl disulfide	5905-46-4570	11699	At least 92%; secondary component 3-6% dipropyl disulfide				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.045	Methyl allyl trisulfide	34135-85- <del>886</del>	11867	At least 80%; secondary components 10-12% dimethyl trisulfide and 6-8% allyl trisulfide	4	JECFA
12.046	Ethyl 2-mercaptopropionate	19788-49- <del>952</del>	11469			JECFA
12.047	3-Mercaptobutan-2-one	40789-98- <del>858</del>	11497			JECFA
12.048	2-Methylbutane-1-thiol	1878-18- <del>8515</del>	11509			JECFA
12.049	3-Methylbutane-2-thiol	2084-18- <del>6517</del>	11510			JECFA
12.052	Di-(3-oxobutyl) sulfide	40790-04- <del>302</del>	11441			JECFA
12.053	Ethyl 3-(methylthio)propionate	13327-56- <del>476</del>	11476			JECFA
12.054	2-(Ethylthio)phenol	4500-58- <del>7529</del>	11666			JECFA
12.055	4-Mercaptobutan-2-one	34619-12- <del>659</del>	11498			JECFA
12.056	3-(Methylthio)butanal	16630-52- <del>467</del>	11687			JECFA
12.057	4-(Methylthio)butan-2-one	34047-39- <del>497</del>	11688			JECFA
12.058	4-(Methylthio)-4-methylpentan-2-one	23550-40- <del>500</del>	11551			JECFA
12.059	Propyl thioacetate	2307-10- <del>0485</del>	11576			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.060	Methyl 4-(methylthio)butyrate	53053-51-474	11526				JECFA
12.061	4-(Methylthio)butanal	42919-64-268	11542				JECFA
12.062	3-(Methylthio)propan-1-ol	505-10-2 461	11554				JECFA
12.063	3-(Methylthio)hexan-1-ol	51755-66-963	11548				JECFA
12.064	Thiogeraniol	39067-80-624	11583				JECFA
12.065	2,8-dithianon-4-en-4-carboxaldehyde	59902-01-471	11904			1	EFSA
12.066	Ethane-1,2-dithiol	2540-63-6 532	11467				JECFA
12.067	Hexane-1,6-dithiol	6191-43-1 540	11486				JECFA
12.068	Benzyl methyl disulfide	699-10-5 577	11508				JECFA
12.069	Nonane-1,9-dithiol	9489-28-9 542	11558				JECFA
12.070	Propane-1,3-dithiol	214-67-5 536	11564				JECFA
12.071	1-Propane-1-thiol	107-03-9 509	11816				JECFA
12.072	Butane-1,2-dithiol	216128-68-6 537	11909				JECFA
12.073	Butane-1,3-dithiol	324330-52-3 538	11910				JECFA
12.074	Diallyl polysulfides	72869-75-5 588	11912			4	JECFA
12.075	Methyl prop-1-enyl disulfide	5905-47-5 569	11712	At least 90%; secondary components 4-5% methyl 1-dipropyl			JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					disulfide and 2-4% propenyl disulfide		
12.076	Propane-1,3-dithiol	1309-80-8	535	11929			JECFA
12.077	Benzyl methyl sulfide	766-92-7	460				EFSA
12.078	4-(Methylthio)butan-1-ol	20582-85-8	462				JECFA
12.079	2-(methylthiomethyl)but-2-enal	40878-72-6	470	11549		1	EFSA
12.080	Thiophenol	108-98-5	525	11585			JECFA
12.081	Dibenzyl disulfide	150-60-7	579				JECFA
12.082	2,6-(Dimethyl)thiophenol	118-72-9	530				JECFA
12.083	Ethyl 3-mercaptopropionate	5466-06-8	553				JECFA
12.084	Ethyl 4-(methylthio)butyrate	22014-48-8	577				JECFA
12.085	p-Menth-1-ene-8-thiol	71159-90-5	523			2	EFSA
12.086	Methyl 2-(methylthio)butyrate	51534-66-8	586				JECFA
12.087	2-(Methylthiomethyl)-3-phenylpropenal	65887-08-3	505				JECFA
12.088	Diallyl sulfide	592-88-1	458	11846			EFSA
12.089	Ethyl 3-(methylthio)butyrate		480	11475			JECFA
12.096	Allyl methyl sulfide	10152-76-8		11429			EFSA
12.098	Allyl prop-1-	33368-82-0		11433			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

	enyl disulfide							
12.099	Allyl propyl sulfide	27817-67-0		11434				EFSA
12.101	Allyl thiopropionate	41820-22-890		11436	At least 83%; secondary component 15-18% diallyl sulfide			JECFA
12.102	Benzyl isothiocyanate	622-78-6	1562	11863				EFSA
12.103	Butane-1,4-dithiol	4191-08-8						EFSA
12.104	Butane-2-thiol	513-53-1						EFSA
12.106	S-2-Butyl 3-methylbutanethioate	2432-91-9						EFSA
12.107	Butyl isothiocyanate	592-82-5	1561	11488				EFSA
12.108	Di-isopentyl thiomalate	68084-03-7672		11454				EFSA
12.109	Di-isopropyl disulfide	4253-89-8567		11455				JECFA
12.111	Dibutyl disulfide	629-45-8						EFSA
12.113	Diethyl sulfide	352-93-2	454	11450				JECFA
12.114	Diethyl trisulfide	3600-24-61701		11451			4	EFSA
12.117	Dipentyl sulfide	872-10-6						EFSA
12.118	2,4-Dithiapentane	1618-26-4533						JECFA
12.120	2,8-Epithio-p-menthane	68398-18-5685					4	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.121	Ethyl 2-(methylthio)propionate	23747-43-581	11471				JECFA
12.122	Ethyl 2-(methylthio)acetate	4455-13-4475					JECFA
12.124	Ethyl butyl sulfide	638-46-0					EFSA
12.125	Ethyl propanethioate	2432-42-0					EFSA
12.126	Ethyl propyl disulfide	30453-31-7694	11478				EFSA
12.127	Ethyl propyl sulfide	4110-50-3	11479				EFSA
12.128	2-Ethylhexane-1-thiol	7341-17-5519					JECFA
12.129	3-(Ethylthio)propan-1-ol	18721-61-4					EFSA
12.130	Heptane-1-thiol	14639-09-41663	11485				EFSA
12.132	Hexane-1-thiol	111-31-9 518	11487				JECFA
12.134	S-Isopropyl 3-methylbut-2-enethioate	34365-79-2679					EFSA
12.135	3-Mercapto-2-methylpropionic acid	26473-47-2					EFSA
12.136	3-Mercapto-2-oxopropionic acid	2464-23-5					EFSA
12.137	3-Mercapto-3-methylbutan-1-ol	34300-94-344				2	EFSA
12.138	3-Mercapto-3-	50746-10-649				2	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methylbutyl formate						
12.139	2-Mercaptoanisole	7217-59-6	1666	11880			EFSA
12.143	1-Mercaptopropan-2-one	24653-75-6	657				JECFA
12.145	4-Methoxy-2-methylbutane-2-thiol	94087-83-9	548			2	EFSA
12.146	Methyl (methylthio)acetate	16630-66-3	691	11525			EFSA
12.148	S-Methyl 4-methylpentanethioate	61122-71-2	488				JECFA
12.149	S-Methyl acetothioate	1534-08-3	482				JECFA
12.150	S-Methyl benzothioate	5925-68-8	8504	11505			JECFA
12.151	Methyl butyl disulfide	60779-24-0					EFSA
12.152	Methyl butyl sulfide	628-29-5					EFSA
12.153	Methyl ethyl disulfide	20333-39-5	693	11470	At least 80%, secondary components 7-8% diethyl sulfide and 8-10% dimethyl sulfide		EFSA
12.154	Methyl ethyl sulfide	624-89-5	453	11474			JECFA
12.155	Methyl ethyl trisulfide	31499-71-5	583			4	JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.156	S-Methyl hexanethioate	20756-86-489		11515				JECFA
12.157	S-Methyl isopentanethioate	23747-45-787		11506				JECFA
12.158	Methyl 3-methyl-2-butenylsulphide	5897-45-0						EFSA
12.159	Methyl methanethiosulfonate	2949-92-0		11520			3	EFSA
12.161	Methyl phenyl disulfide	14173-25-376		11532				JECFA
12.162	Methyl phenyl sulfide	100-68-5 459		11533				EFSA
12.163	Methyl prop-1-enyl sulfide	10152-77-9		11538				EFSA
12.165	S-Methyl propanethioate	5925-75-71678						EFSA
12.166	Methyl propyl sulfide	3877-15-4		11541				EFSA
12.168	2-Methyl-2-(methylthio)propanal	67952-60-380						JECFA
12.169	2-Methyl-4-oxopentane-2-thiol	19872-52-7293		11500	48% 2-methyl-4-oxopentane-2-thiol and 48-50% 4-methyl-3-penten-2-one.		2	EFSA
12.170	3-Methylbut-2-ene-1-thiol	5287-45-6522		11511				JECFA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.171	3-Methylbutane-1-thiol	541-31-1	513				JECFA
12.173	2-Methylpropane-1-thiol	513-44-0	512	11536			JECFA
12.175	Methylsulfonyl methane	6748-51-0	507				JECFA
12.176	4-(Methylthio)-2-oxobutyric acid	583-92-6	501				JECFA
12.177	8-(Methylthio)-p-menthan-3-one	32637-94-8					EFSA
12.178	3-(Methylthio)butyric acid	16630-65-2					EFSA
12.179	2-(Methylthio)ethan-1-ol	5271-38-5	1297	11545			EFSA
12.180	1-(Methylthio)ethane-1-thiol	31331-53-0					EFSA
12.181	1-(Methylthio)pentan-3-one	66735-69-1					EFSA
12.182	2-(Methylthio)propionic acid	58809-73-7					EFSA
12.183	3-(Methylthio)propionic acid	646-01-5					EFSA
12.187	Methylthioacetate butyrate	74768-93-4	473				JECFA
12.188	Methylthioacetate hexanoate	74768-91-4	479				JECFA
12.189	S-(Methylthiomethyl) 2-methylpropanethioate	77974-85-7					EFSA
12.191	Pentane-1-thiol	110-66-7	1662				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.192	Pentane-2-thiol	2084-19-7514				JECFA
12.193	Phenethyl isothiocyanate	2257-09-21563	11495			EFSA
12.194	2-Phenylethane-1-thiol	4410-99-5527	11561			JECFA
12.195	S-Prenyl thioacetate	33049-93-491				JECFA
12.196	S-Prenyl thioisobutyrate	53626-94-1				EFSA
12.197	Propane-2-thiol	275-33-2	510	11565		JECFA
12.198	2,3,5-Trithiahexane	42474-44-1299				EFSA
12.200	1,1-bis(Ethylthio)ethane	14252-42-7				EFSA
12.201	8-Acetylthio-p-menthanone-3	94293-57-906				JECFA
12.203	Methylthio-2-(acetyloxy)propionate	74586-09-792				JECFA
12.205	Mercaptoacetaldehyde	41246-41-1				EFSA
12.211	But-1-enyl methyl sulphide		457			JECFA
12.212	Ethyl-5-(methylthio)valerate	233665-981098				EFSA
12.214	Isobutyl-3-(methylthio)butyrate	4127931-211077				EFSA
12.217	3-Mercaptohexan-1-ol		545			JECFA
12.218	Methyl-3-methyl-1-butenyl disulphide		571			JECFA
12.221	S-Prenyl thioisopentanoate	75631-91-3				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.227	Methylthio-2-(propionylloxy)propionate	493					JECFA
12.234	3-Mercaptohexyl acetate	136954-20564			At least 82%; secondary components 8% 3-mercaptohexanol and 10% 3-acetylmercaptohexyl acetate		JECFA
12.235	3-Mercaptohexyl butyrate	136954-21535			At least 90%; secondary component 5-6% 3-mercaptohexanol		JECFA
12.236	3-(Methylthio)hexyl acetate	51755-85-281					JECFA
12.237	3-(Methylthio)propyl acetate	16630-55-078					JECFA
12.238	3-Mercapto-2-methylpentan-1-ol	227456-271291					EFSA
12.239	3-Mercapto-2-methylpentanal	227456-281292					EFSA
12.240	2,4,6-Trithiaheptane	6540-86-91684					EFSA
12.241	2-Mercapto-2-methylpentan-1-ol	258823-391290				2	EFSA
12.242	Methylthio-2-methylpentan-1-ol	29414-47-9675					EFSA
12.243	Dimercapto-2-methanol	6725164-1661					EFSA
12.244	1-Methylthio-2-propanone	14109-72-995					JECFA
12.250	3-Mercaptohexanal	51755-72-7					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.251	3-Mercaptohexyl hexanoate	136954-22586					JECFA
12.252	4-Mercapto-4-methyl-2-pentanol	31539-84-1669				2	EFSA
12.253	Amyl methyl disulfide	72437-68-4697					EFSA
12.254	Butyl ethyl disulfide	63986-03-8698		At least 90%, secondary components 2-3% diethyl disulfide and 5-6% dibutyl disulfide			EFSA
12.255	Ethyl 3-mercaptopbutyrate	156472-941294					EFSA
12.256	Ethyl propyl trisulfide	31499-70-4695				4	EFSA
12.257	Ethyl 4-(acetylthio)butyrate	104228-511295					EFSA
12.259	1-Mercapto-p-menthan-3-one	29725-66-4673		At least 89%, secondary components 8-9% piperitone and 1-2% alpha-terpineol		2	EFSA
12.264	4,2-Thiopentanone	92585-08-5670					EFSA
12.265	(E)-2-Methyl-1-methylthio-2-butene	89534-74-7683					EFSA
12.266	Methyl-2-mercaptopropionate	53907-46-3					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.267	Propyl-2-mercaptopropionate	19788-50-1667					EFSA
12.272	Propyl propanethiosulfonate	1113-13-91702				3	EFSA
12.273	3-(Methylthio)heptanal	51755-70-1692			At least 92%; secondary component 2-(E)-heptenal		EFSA
12.274	3,6-Diethyl-1,2,4-trithiolane and 3,5-diethyl-1,2,4-trithiolane mix in vegetable oil triglycerides	54644-28-9687 34717-12-3			0.18% 3,6-diethyl-1,2,4,5-tetrathiane isomer I+ II; 0.05% 3,5-diethyl-1,2,4-trithiolane isomer I; 0.1% 3,5-diethyl-1,2,4-trithiolane isomer II; 99% vegetable oil triglyceride		EFSA
12.275	Allyl thiohexanoate	156420-691881					EFSA
12.276	(S)-1-Methoxy-3-heptanethiol	400052-491571					EFSA
12.277	3-(Methylthio)propyl butyrate	16630-60-7					EFSA
12.278	3-Acetyl-mercaptohexyl acetate	136954-25-1					EFSA
12.279	3-Methylthiohexanal	38433-74-869					JECFA
12.280	Diisopropyl trisulphide	5943-34-01300				4	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.282	(S)-Methyl octanethioate	2432-83-9					EFSA
12.283	3-Butenyl isothiocyanate	3386-97-8	1889				EFSA
12.284	bis(1-Mercaptopropyl)sulphide	53897-60-1	1709				EFSA
12.285	3-Methylthio-2-butanone	53475-15-3	1688				EFSA
12.286	4-Methylthio-2-pentanone	143764-281	1789				EFSA
12.287	Methyl 3-(methylthio)butanoate	207983-281	1690				EFSA
12.288	Heptan-2-thiol	628-00-2	1664				EFSA
12.289	1-Phenylethylmercaptan	6263-65-6	1665				EFSA
12.290	Methyl-3-mercaptopbutanoate	54051-19-3	1674				EFSA
12.291	3-Mercapto-2-methyl-1-butanol	227456-331	1289				EFSA
12.292	Hexyl 3-mercaptopbutanoate	796857-791	1904				EFSA
12.293	Ethane-1,1-dithiol	169382-62-3	1660		1% solution of ethane-1,1-dithiol, solvent 95% ethanol		EFSA
12.294	Isopentyl methyl disulfide	72437-56-0	0696				EFSA
12.297	3-Mercaptoheptyl acetate	548774-801	1708				EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

12.298	Di-(1-propenyl)sulfid (mixture)	65819-74-1, 37981-37-6, 37981-36-5					EFSA
12.299	3-(Methylthio)propyl hexanoate	906079-63-8					EFSA
12.300	1,1-Propanedithiol	88497-17-0					EFSA
12.301	Methyl-2-oxo-propyl disulfide	122861-78-3			At least 90%, secondary components 1-mercapto-2-propan-1-one (less than 8%), 1,1-disulfanediyldipropyl-2-one (less than 5%) and 1,3-dimethyltrisulfane (less than 3%)		EFSA
12.302	2-Butanol, 4-mercapto-3-methyl	33959-27-2					EFSA
12.303	3-Pentanethiol	616-31-9					EFSA
12.304	Ethyl-2-mercapto-2-methyl propanoate	33441-50-8				1	EFSA
12.305	2-Mercapto-4-heptanol	1006684-20-3					EFSA
12.306	3-(Methylthio)-decanal	1256932-15-6					EFSA
13.001	5-Methylfurfural	620-02-0	745	119			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.002	Methyl 2-furoate	611-13-2	746	358				EFSA
13.003	Propyl 2-furoate	615-10-1	747	359				EFSA
13.004	Allyl 2-furoate	4208-49-521		360			2	EFSA
13.005	Hexyl 2-furoate	39251-86-049		361				EFSA
13.006	Phenethyl 2-furoate	7149-32-81517		362				EFSA
13.007	2-(3-Phenylpropyl)tetrahydrofuran	3208-40-01441		489				EFSA
13.009	3,4-Dihydrocoumarin	119-84-6	1171	535				EFSA
13.010	4-Hydroxy-2,5-dimethylfuran-3(2H)-one	3658-77-31446		536			1	EFSA
13.011	(E)-Ethyl furfuracrylate	623-20-1		545				EFSA
13.012	6-Methylcoumarin	92-48-8	1172	579				EFSA
13.015	bis-(2,5-Dimethyl-3-furyl) disulfide	28588-73-0067		722				EFSA
13.016	bis-(2-Methyl-3-furyl) disulfide	28588-75-2066		723				EFSA
13.017	bis-(2-Methyl-3-furyl) tetrasulfide	28588-76-3068		724				EFSA
13.018	Furfural	98-01-1	450	2014				EFSA
13.019	Furfuryl alcohol	98-00-0	451	2023				EFSA
13.020	Tetrahydrofuran-2-yl alcohol	97-99-4	1443	2029				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.021	Isopentyl 4-(2- furan)butyrate	7779-66-01516	2080				EFSA
13.022	Ethyl 3(2- furyl)propionate	10031-90-0513	2091				EFSA
13.023	Isopentyl 3-(2- furan)propionate	7779-67-11515	2092				EFSA
13.024	Isobutyl 3-(2- furyl)propionate	105-01-1 1514	2093				EFSA
13.025	Pentyl 2- furoate	1334-82-3748	2109				EFSA
13.026	2- Furanmethanethiol	98-02-2 1072	2202				EFSA
13.027	2- Pentyl-5 or 6- keto-1,4- dioxane	65504-96-3485	2205				EFSA
13.028	2- Butyl-5 or 6- keto-1,4- dioxane	65504-45-2484	2206				EFSA
13.029	2,5- Dimethylfuran	625-86-5 1488	2208			3	EFSA
13.030	2- Methylfuran	534-22-5 1487	2209			3	EFSA
13.031	2- Benzofurancarboxaldehyde	4265-16-1751	2247				EFSA
13.032	Furfuryl isopropyl sulfide	1883-78-91077	2248				EFSA
13.033	S- Furfuryl acetothioate	13678-68-7074	2250				EFSA
13.034	3-(2- furyl)acrylaldehyde	623-30-3 1497				1	EFSA
13.037	2-(2- Methylprop-1- enyl)-4- methyltetrahydropyran	16409-43-1237	2269				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.038	2-Phenyl-3-carbethoxyfuran	50626-02-352	2309				EFSA
13.039	2,4,5-Trimethyl-delta-3-oxazoline	22694-96-8559	2319				EFSA
13.040	(S)-2,5-dimethyl-3-thiofuroylfuran	65505-16-0071	2323				EFSA
13.041	2,5-Dimethyl-3-(isopentylthio)furan	55764-28-8070	2324				EFSA
13.042	4,5-Dihydro-2-methylfuran-3(2H)-one	3188-00-91448	2338				EFSA
13.043	Furfurylidene-2-butanal	570-27-4	1501	11885		1	EFSA
13.044	4-(2-Furyl)but-3-en-2-one	623-15-4	1511	11838		1	EFSA
13.045	1-(2-Furyl)propan-2-one	6975-60-61508	11837			4	EFSA
13.046	3-(2-Furyl)-2-methylprop-2-enal	874-66-8	1498	11878		1	EFSA
13.047	Propyl 3-(2-furyl)acrylate	623-22-3	1518	11842			EFSA
13.048	Tetrahydrofurfuryl butyrate	2117-33-61444	11841				EFSA
13.049	Tetrahydrofurfuryl propionate	6376-5-0	1445	11843			EFSA
13.050	Difurfuryl disulfide	14437-20-11081	11480				EFSA
13.051	S-Furfuryl thioformate	59020-90-5073	11770				EFSA
13.052	Furfuryl methyl ether	13679-46-4520	10944			4	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.053	Methyl furfuryl sulfide	1438-91-11076	11482				EFSA
13.054	2- Acetylfuran	1192-62-71503				4	EFSA
13.055	2- Methylfuran-3- thiol	28588-74-1060	11678				EFSA
13.056	Difurfuryl sulfide	13678-67-6080	11438			4	EFSA
13.057	Furfuryl isovalerate	13678-60-943	10642				EFSA
13.058	3-(5- Methyl-2- furyl) butanal	31704-80-0500	10355			4	EFSA
13.059	2- Pentylfuran	3777-69-31491	10966			3	EFSA
13.060	Tetrahydro-2H- cinnamate	65505-25-1447	11821				EFSA
13.061	Difurfuryl ether	14437-22-31522	10930			4	EFSA
13.062	Furfuryl propionate	623-19-8740	10646				EFSA
13.063	S- Furfuryl propanethioate	59020-85-8075	11484				EFSA
13.064	Methyl furfuryl disulfide	57500-00-2078	11513				EFSA
13.065	2- Methyl-5- (methylthio)furan	13678-59-6062	11550				EFSA
13.066	3- Acetyl-2,5- dimethylfuran	10599-70-9506	10921			4	EFSA
13.067	Furfuryl octanoate	39252-03-742	10645				EFSA
13.068	Furfuryl valerate	36701-01-741	10647				EFSA
13.069	2- Heptylfuran	3777-71-71492	10952			3	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.070	2-Hexanoylfuran	14360-50-0512	11180			4	EFSA
13.071	2,5-Dimethylfuran-3-thiol	55764-23-3063	11457				EFSA
13.072	1,5,5,9-Tetramethyl-13-oxatricyclo[8.3.0.0.(4.9)]tridecane	3738-00-91240	10514				EFSA
13.073	Octyl 2-furoate	39251-88-250	10864				EFSA
13.074	2,3-Dimethylbenzofuran	3782-00-11495	11913				EFSA
13.075	2,6-Dimethyl-3-((2-methyl-3-furyl)thio)heptan-4-one	61295-51-0086	11915	At least 94%; secondary component at least 1% 2,6-dimethyl-2-[(2-methyl-3-furyl)thio]-4-heptanone			EFSA
13.076	6-Hydroxydihydrotheaspirane	65620-50-0648	11917			2	EFSA
13.077	3-((2-Methyl-3-furyl)thio)heptan-4-one	61295-41-8085	11922				EFSA
13.078	4-((2-Methyl-3-furyl)thio)nonan-5-one	61295-50-9087	11923				EFSA
13.079	Methyl 2-methyl-3-furyl disulfide	65505-17-1064	11924				EFSA
13.082	Propyl 2-methyl-3-furyl disulfide	61197-09-9065					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.083	2-Acetyl-5-methylfuran	1193-79-91504	11038			4	EFSA
13.084	2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone	27538-09-6449				1	EFSA
13.085	4-Hydroxy-5-methylfuran-3(2H)-one	19322-27-1450	11785			1	EFSA
13.086	4,5-Dihydro-2-methyl-3-thioacetylfuran	26486-14-6089					EFSA
13.087	6-Acetyldihydrotheaspirane	57893-27-3647				2	EFSA
13.088	3,6-Dihydro-4-methyl-2-(2-methylprop-1-en-1-yl)-2H-pyran	1786-08-91235					EFSA
13.089	2,5-Dimethyl-4-methoxyfuran-3(2H)-one	4077-47-81451				2	EFSA
13.090	2,2-Dimethyl-5-(1-methylprop-1-enyl)tetrahydrofuran	7416-35-51452	10937				EFSA
13.091	4,5-Dimethyl-2-ethyloxazole	53833-30-0555					EFSA
13.092	2-Ethylfuran	3208-16-01489	11706			3	EFSA
13.093	Ethyl 3-(2-furfurylthio)propionate	94278-27-0088					EFSA
13.094	2,6,6-Trimethyl-2-vinyltetrahydropyran	7392-19-01236	10976				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.095	2,5-Diethyltetrahydrofuran	41239-48-9453	11882				EFSA
13.097	Anhydrolinone (5)	13679-86-2455	11944			2	EFSA
13.098	Theaspirane	26431-72-8238	10515				EFSA
13.099	4-Acetoxy-2,5-dimethylfuran-3(2H)-one	4166-20-51456				1	EFSA
13.101	2-Acetyl-3,5-dimethylfuran	22940-86-9505				4	EFSA
13.102	Butyl 2-furoate	583-33-5					EFSA
13.103	2-Butylfuran	4466-24-41490	10927			3	EFSA
13.105	2-Butyrylfuran	4208-57-51507				4	EFSA
13.106	2-Decylfuran	83469-85-6493				3	EFSA
13.108	4,5-Dihydro-3-mercapto-2-methylfuran	26486-13-5					EFSA
13.112	4,5-Dimethyl-2-propyloxazole	53833-32-2569	11379				EFSA
13.113	2,5-Dimethyl-3-(methylthio)furan	61197-06-6					EFSA
13.114	2,5-Dimethyl-3-(methylthio)furan	63359-63-7					EFSA
13.115	2,4-Dimethyl-3-oxazoline	77311-02-3558					EFSA
13.116	2,5-Dimethyl-3-thioacetylfuran	55764-22-2523					EFSA
13.117	2,5-Dimethyl-4-ethoxyfuran-3(2H)-one	65330-49-6				2	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

13.118	2,5-Dimethyl-4-ethyloxazole	30408-61-8	554					EFSA
13.119	2,5-Dimethylfuran-3(2H)-one	14400-67-0		11066			2	EFSA
13.120	2,5-Dimethyltetrahydrofuran	1003-38-9						EFSA
13.122	Ethyl 2-furoate	614-99-3		10588				EFSA
13.123	Ethyl furfuryl ether	6270-56-0	1521	10940			4	EFSA
13.124	Ethyl furfuryl sulfide	2024-70-6						EFSA
13.125	2-Ethyl-5-methylfuran	1703-52-2		10942			3	EFSA
13.127	Furfuryl 2-methylbutyrate	13678-61-0		10643				EFSA
13.128	Furfuryl acetate	623-17-6	739	2065				EFSA
13.129	Furfuryl but-2(E)-enoate	59020-84-7						EFSA
13.130	Furfuryl butyrate	623-21-2	759	638				EFSA
13.132	Furfuryl hexanoate	39252-02-3						EFSA
13.133	Furfuryl isobutyrate	6270-55-9		10641				EFSA
13.134	1-Furfurylpyrrole	1438-94-4	1310	2317			4	EFSA
13.135	1-(2-Furfurylthio)propanone	58066-86-7						EFSA
13.136	2-Furoic acid	88-14-2		10098				EFSA
13.137	3-(2-Furyl)-2-phenylprop-2-enal	65545-81-5	502	11928			1	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

13.138	1-(2-Furyl)butan-3-one	699-17-2	1510	11084			4	EFSA
13.139	5-Hydroxymethylfurfuraldehyde	67-47-0		11112				EFSA
13.140	Linalool oxide (5-ring)	1365-19-1	11454	11876				EFSA
13.141	Methyl (2-furfurylthio)acetate	108499-33-8						EFSA
13.142	S-Methyl 2-furanthiocarboxylate	13679-61-3	1083	11547				EFSA
13.143	Methyl 3-(furfurylthio)propionate	94278-26-9						EFSA
13.144	Methyl 5-methylfurfuryl disulfide	78818-78-7						EFSA
13.145	Methyl 5-methylfurfuryl sulfide	13679-60-2		11522				EFSA
13.146	Methyl furfuryl trisulfide	66169-00-4						EFSA
13.148	3-Methyl-2-(3-methylbut-2-enyl)furan	15186-51-3	1494				3	EFSA
13.149	5-Methyl-2-furanmethanethiol	59303-05-8						EFSA
13.150	3-(5-Methyl-2-furyl)prop-2-enal	5555-90-8	1499				1	EFSA
13.151	2-Methyl-3,5 and 6-(furfurylthio)pyrazine	65530-53-2	1082	2287	Mixture of isomers: 70% 2,3-; 29%			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					2,6;- trace 2,5-			
13.152	2- Methyl-3- (methylthio)furan	63012-97-1061						EFSA
13.153	2- Methyl-3- furyl thioacetate	55764-25-1069			At least 92%; secondary component 5-7 % cis- and trans-2- methyl-3- tetrahydrofuranthiol acetate			EFSA
13.154	2- Methyl-4,5- benzo- oxazole	95-21-6	1557					EFSA
13.160	2- Methyltetrahydrofuran-3- thiol	57124-87-1090					4	EFSA
13.161	Octahydro-4H-pyridin-3	4430-31-3	1166					EFSA
13.162	2- Octylfuran	4179-38-8		10965			3	EFSA
13.163	2- Pentanoylfuran	3194-17-0	1509				4	EFSA
13.165	6,7,8,8a- Tetrahydro-2,5,5,8a- tetramethyl-5H-1- benzopyran	5552-30-7	1239					EFSA
13.166	Tetrahydro-2H-pyridin-4- yl acetate	6376-4-9	1442	2069				EFSA
13.167	(tetrahydro-2H-pyridin-4- yl)methyl phenylacetate	5421-00-1						EFSA
13.169	Trimethyl-2,4,6-trisubstituted benzene	2066-184-4	4553	11424				EFSA
13.170	2S-cis- Tetrahydro-4- methyl-2- (2- methyl-1- propenyl)-2H- pyran	3033-23-6					1	EFSA
13.175	4- Acetyl-2,5-						2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	dimethylfuran-3(2H)-one						
13.176	Furan-2-yl butyrate	114099-961619				1	EFSA
13.178	3-[(2-Furfuryl)dithio]-2-methylfuran	109537-551524					EFSA
13.185	3-[(2-Furfuryl)dithio]-2-butanone	159113-17-4					EFSA
13.189	Linalool oxide(5) acetate	56469-39-7					EFSA
13.190	3-((2-Methyl-3-furylthio)-2-butanone	61296-44-1525					EFSA
13.193	2,5-Dimethyltetrahydro-3-furanthiol	26486-21-5091				4	EFSA
13.194	2,5-Dimethyltetrahydro-3-furyl thio acetate	252736-391092				4	EFSA
13.195	2-Isobutyl-4,5-dimethyl oxazole	26131-91-9556					EFSA
13.196	[(2-furanylmethyl)thio]-2-pentanone	180031-781084					EFSA
13.197	Furfuryl propyl disulphide	252736-361079					EFSA
13.198	3,6-Dimethyl-2,3,3a,4,5,7a-hexahydrobenzofuran	70786-44-6					EFSA
13.199	3-[(2-Methyl-3-furylthio)]-butanal	915971-43-6					EFSA
13.200	5-isopropyl-2,6-diethyl-2-	1120363-98-5					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methyln-tetrahydro-2H-pyran						
14.001	Isoquinoline	9-65-3	1303	487		4	EFSA
14.003	Piperine	94-62-2	1600	492		4	JECFA/ EFSA
14.004	3-Methylindole	83-34-1	1304	493			EFSA
14.005	2,3-Diethylpyrazine	15707-24-7	171	534			EFSA
14.006	2-Ethyl-3-methylpyrazine	15707-23-0	168	548			EFSA
14.007	Indole	120-72-9	1301	560			EFSA
14.010	Piperidine	110-89-4	1607	675			EFSA
14.011	Quinine hydrochloride	130-89-2		715		In categories 14.1 and 14.2 – not more than 100 mg/kg In spirit drinks as defined in Regulation (EC) No 110/2008 - not more than 250 mg/kg Individually or in combination with FL 14.152 and/or FL 14.155 expressed as quinine base	EFSA
14.014	5,7-Dihydro-2-	36267-71-7	1566	720			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methylthieno(3,4-d)pyrimidine						
14.015	5,6,7,8-Tetrahydroquinoxaline	34413-35-952	721				EFSA
14.017	2-Ethyl-5-methylpyrazine	13360-64-070	728				EFSA
14.018	2,3,5,6-Tetramethylpyrazine	1124-11-4780	734				EFSA
14.019	2,3,5-Trimethylpyrazine	14667-55-774	735				EFSA
14.020	2,5-Dimethylpyrazine	123-32-0766	2210				EFSA
14.021	2,6-Dimethylpyrazine	108-50-9767	2211				EFSA
14.022	Ethylpyrazine	11025-00-362	2213				EFSA
14.024	2-Ethyl-3,5-dimethylpyrazine	13925-07-076	2245				EFSA
14.025	2,5 or 6-Methoxy-2,8,8-dimethylpyrazine	2847-30-5788 2822-22-6, 2882-21-5	2266				EFSA
14.026	2-Isopropyl-5-methylpyrazine	13925-05-872	2268				EFSA
14.027	2-Methylpyrazine	109-08-0761	2270				EFSA
14.028	5-Methylquinoxaline	13708-12-898	2271				EFSA
14.029	1-Phenyl-(3 or 5)-propylpyrazole	65504-93-0568	2277				EFSA
14.030	2-Pyridine methanethiol	2044-73-71308	2279				EFSA
14.031	2-Pyrazinyl ethanethiol	35250-53-495	2285				EFSA
14.032	Acetylpyrazine	22047-25-284	2286				EFSA
14.034	Pyrazinyl methyl sulfide	21948-70-996	2288				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.035	2-Methyl-3,5 or 6-methylthiopyrazine	67952-65-297		2290	70-90% 2-methylthio-3-methylpyrazine and 10-30% 2-methylthio-5 or 6-methylpyrazine.			EFSA
14.037	6,7-Dihydro-5-methyl-5H-cyclopentapyrazine	23747-48-081		2314				EFSA
14.038	2-Acetylpyridine	1122-62-91309		2315				EFSA
14.039	3-Acetylpyridine	350-03-81316		2316				EFSA
14.041	Pyrrole	109-97-71314		2318			4	JECFA/ EFSA
14.042	6-Methylquinoline	91-62-31302		2339			4	EFSA
14.043	2-Isobutyl-3-methoxy-pyrazine	24683-00-992		11338				EFSA
14.044	2-Isobutyl-3-methylpyrazine	13925-06-973						EFSA
14.045	2-Acetyl-1-ethylpyrrole	39741-41-8305		11371			2	EFSA
14.046	2-Acetyl-1-methylpyrrole	932-16-11306		11373			2	EFSA
14.047	2-Acetylpyrrole	1072-83-91307		11721			2	EFSA
14.049	2-Acetyl-3-ethylpyrazine	32974-92-885		11293				EFSA
14.050	2,3-Dimethylpyrazine	5910-89-4765		11323				EFSA
14.053	Mercaptono-2-pyrazine	59031-02-294		11502				EFSA
14.054	Methoxy-pyrazine	3149-28-8787		11347				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.055	2-Acetyl-3,5-dimethylpyrazine	54300-08-286		11294				EFSA
14.056	2,3-Diethyl-5-methylpyrazine	18138-04-077		11303				EFSA
14.057	2-Isopropyl-3-methoxypyrazine	25773-40-4						EFSA
14.058	2-Isobutylpyridine	6304-24-11311		11395				EFSA
14.059	3-Isobutylpyridine	14159-61-6312		11396				EFSA
14.060	2-Pentylpyridine	2294-76-01313		11412				EFSA
14.061	3-Ethylpyridine	536-78-7	1315	11386				EFSA
14.062	2-(sec-Butyl)-3-methoxypyrazine	24168-70-591		11300				EFSA
14.064	Pyrrolidine	23-75-1	1609	10491				EFSA
14.065	2,6-Dimethylpyridine	108-48-5	1317	11381				EFSA
14.066	5-Ethyl-2-methylpyridine	104-90-5	1318	11385				EFSA
14.067	2-Methyl-3-ethoxypyrazine	32737-14-793		11921	82% 2-methyl-3-ethoxypyrazine and 15% 2-methyl-5 or 6-ethoxypyrazine			EFSA
14.068	2-Propionylpyrrole	1073-26-31319		11942			2	EFSA
14.069	Cyclohexylmethylpyrazine	28217-92-781						EFSA
14.070	4-Acetyl-2-methylpyrimidine	67860-38-2565						EFSA
14.071	Methyl nicotinate	93-60-7	1320					EFSA
14.072	2-(3-Phenylpropyl)pyridine	2110-18-11321						EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

14.077	2-Ethyl- (3,5 or 6)- methoxy- (85%) and 2- Methyl- (3,5 or 6)- methoxy- (13%)	2-Et-3- MeO: 25680-58-4, 2-Et-3- MeO: 68039-50-9, 2-Et-6- MeO: 67845-38-9, 2-Me-3- MeO: 2847-30-5, 2-Me-5- MeO: 2882-22-6, 2-Me-6- MeO: 2882-21-5	789	11329				EFSA
14.079	2- Acetyl-1,4,5,6- tetrahydropyridine	27300-27-2				2		EFSA
14.080	2- Acetyl-1- pyrroline	99583-29-6	6604					EFSA
14.081	5- Acetyl-2,3- dimethylpyrazine	54300-10-6						EFSA
14.082	2- Acetyl-3- methylpyrazine	23787-80-5	6650	11296				EFSA
14.083	2- Acetyl-5- ethylpyrazine	43108-58-3						EFSA
14.084	2- Acetyl-5- methylpyrazine	22047-27-4		11297				EFSA
14.085	2- Acetyl-5- methylpyrrole	6982-72-5				2		EFSA
14.086	2- Acetyl-6- ethylpyrazine	34413-34-8		11295				EFSA
14.087	2- Acetyl-6- methylpyrazine	22047-26-3		11298				EFSA
14.088	1- Acetylintole	576-15-8						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.089	4-Acetylpyridine	1122-54-9					EFSA
14.091	2-Butyl-3-methylpyrazine	15987-00-5					EFSA
14.092	2-Butylpyridine	5058-19-5					EFSA
14.093	3-Butylpyridine	539-32-2					EFSA
14.095	3,5-Diethyl-2-methylpyrazine	18138-05-779	11305				EFSA
14.096	2,5-Diethyl-3-methylpyrazine	32736-91-778	11304				EFSA
14.097	2,5-Diethylpyrazine	13238-84-1	11306				EFSA
14.098	6,7-Dihydro-2,3-dimethyl-5H-cyclopentapyrazine	38917-63-482	11309				EFSA
14.099	6,7-Dihydro-5,7-dimethyl-5H-cyclopentapyrazine	41330-21-6					EFSA
14.100	3,(5-or 6)-Dimethyl-2-ethylpyrazine	55031-15-775	727	About 50% 2-ethyl-3,5-dimethylpyrazine; about 50% 2-ethyl-3,6-dimethylpyrazine			EFSA
14.101	2,5-Dimethyl-3-isopropylpyrazine	40790-20-3	11318				EFSA
14.102	2,5-Dimethyl-6,7-dihydro-5H-cyclopentapyrazine	38917-61-2, 38917-62-3		Mixture of 2,5-dimethyl-6,7-dihydro-5H-cyclopentapyrazine (60-100%) and 3,5-dimethyl-6,7-dihydro-5H-cyclopentapyrazine			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					(up to 40 %).		
14.103	2,3-Dimethylpyridine	583-61-9					EFSA
14.104	2,4-Dimethylpyridine	108-47-4					EFSA
14.105	3,4-Dimethylpyridine	583-58-4					EFSA
14.106	3,5-Dimethylpyridine	591-22-0	11382				EFSA
14.108	2,3-Dimethylquinoxaline	2379-55-7					EFSA
14.109	2-Ethoxy-3-methylpyrazine	32737-14-7					EFSA
14.110	Ethyl nicotinate	614-18-6					EFSA
14.111	3-Ethyl-2,5-dimethylpyrazine	13360-65-1					EFSA
14.112	2-Ethyl-3-methoxypyrazine	25680-58-4					EFSA
14.113	5-Ethyl-6,7-dihydro-5H-cyclopentapyrazine	52517-53-0					EFSA
14.114	2-Ethyl-6-methylpyrazine	13925-03- <del>669</del>	11331	95% (sum of 2,5- and 2,6-isomers); 60-63% 2,5-isomer and 30-35% 2,6-isomer			EFSA
14.115	2-Ethylpyridine	100-71-0	11767				EFSA
14.116	4-Ethylpyridine	536-75-4	11387				EFSA
14.117	2-Hexylpyridine	1129-69-7					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.118	2-Hydroxypyridine	142-08-5					EFSA
14.120	Isopropyl nicotinate	553-60-6					EFSA
14.121	2-Isopropyl-(3,5 or 6)-methoxypyrazine	93905-03-790		11344			EFSA
14.122	2-Isopropyl-3-methylthiopyrazine	67952-59-4		11342			EFSA
14.123	Isopropylpyrazole	29460-90-064		11343			EFSA
14.124	2-Isopropylpyridine	644-98-4		11400			EFSA
14.125	4-Isopropylpyridine	696-30-0					EFSA
14.126	2-Methoxy-3-methylpyrazine	2847-30-5					EFSA
14.127	2-Methoxy-3-propylpyrazine	25680-57-3					EFSA
14.128	2-Methyl-3-methylthiopyrazine	2882-20-4					EFSA
14.129	2-Methyl-3-propylpyrazine	15986-80-8					EFSA
14.131	2-Methylindole	95-20-5					EFSA
14.133	2-Methylpiperidine	109-05-7	1608				EFSA
14.134	2-Methylpyridine	109-06-8		11415			EFSA
14.135	3-Methylpyridine	108-99-6		11801			EFSA
14.136	4-Methylpyridine	108-89-4		11416			EFSA
14.137	1-Methylpyrrolidine	120-94-5					EFSA
14.140	3-Pentylpyridine	1802-20-6					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.141	Piperazine	1110-85-0	1615					EFSA
14.142	Propylpyrazole	2118-03-9	963	11362				EFSA
14.143	3-Propylpyridine	4673-31-8		11419				EFSA
14.144	Pyrazine	290-37-9	951	11363				EFSA
14.145	Pyrrole-2-carbaldehyde	1003-29-8		11393			4	EFSA
14.148	5,6,7,8-Tetrahydro-5-methylquinoxaline	52517-54-1						EFSA
14.150	2,4,6-Trimethylpyridine	108-75-8						EFSA
14.152	Quinine sulphate	804-63-7						EFSA
						In categories 14.1 and 14.2 – not more than 100 mg/kg In spirit drinks as defined in Regulation (EC) No 110/2008 - not more than 250 mg/kg Individually or in combination with FL 14.011 and/or FL 14.155 expressed as quinine base		
14.155	Quinine monohydrochloride dihydrate	6119-47-7						EFSA
						In categories 14.1 and 14.2 –		

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

						not more than 100 mg/kg In spirit drinks as defined in Regulation (EC) No 110/2008 - not more than 250 mg/kg Individually or in combination with FL 14.011 and/or FL 14.152 expressed as quinine base	
14.161	6,7-Dihydro-2,5-dimethyl-5H-cyclopentapyrazine	38917-61-2	11310				EFSA
14.163	1-Methylpyrrole-2-carboxaldehyde	1192-58-1				4	EFSA
14.164	2-Propylpyridine	622-39-9	1322				EFSA
14.167	1-Pyrroline	5724-81-2	1603				EFSA
14.168	2-Propionylpyrroline 1% vegetable oil triglycerides	133447-371	705			2	EFSA
14.169	1-Ethyl-2-pyrrolinecarboxaldehyde	2167-14-8				4	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

14.170	5-Ethyl-2,3-dimethylpyrazine	15707-34-3					EFSA
15.001	2-Mercaptothiophene	7774-74-5	1052	478			EFSA
15.002	2-Methyl-5-methoxythiazole	38205-64-0	0057	736			EFSA
15.004	5-Methyl-2-thiophenecarbaldehyde	13679-70-4	4050	2203		2	EFSA
15.005	2,4-Dimethyl-5-vinylthiazole	65505-18-1	1039	2237		2	EFSA
15.006	2,5-Dihydroxy-2,5-dimethyl-1,4-dithiane	55704-78-4	462	2322			JECFA
15.007	Spiro(2,4-dithia-1-methyl-8-oxabicyclo[3.3.0]octane-3,3'-(1'-oxa-2'-methyl)-cyclopentane) and Spiro(2,4-dithia-6-methyl-7-oxabicyclo[3.3.0]octane-3,3'-(1'-oxa-2'-methyl)-cyclopentane)	38325-25-6	6296	2325		1	CoE/ JECFA/ EFSA
15.008	2-Thienyl disulfide	6911-51-9	1053	2333			EFSA
15.009	Trithioacetone	628-26-2	543	2334			JECFA
15.010	2-Acetyl-2-thiazoline	29926-41-8	8759	2335		2	EFSA
15.011	5-Acetyl-2,4-dimethylthiazole	38205-60-6	0055	2336			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

15.012	4,5-Dihydrothiophen-3(2H)-one	1003-04-9498	2337				JECFA
15.013	2-Isobutylthiazole	18640-74-9034	11618				EFSA
15.014	5-(2-Hydroxyethyl)-4-methylthiazole	137-00-8	1031	11621			EFSA
15.015	4-Methyl-5-(2-acetoxyethyl)thiazole	656-53-1	1054	11620			EFSA
15.016	Benzothiazole	2516-9	1040	11594			EFSA
15.017	4,5-Dimethylthiazole	3581-91-7	1035	11606			EFSA
15.018	4-Methyl-5-vinylthiazole	1759-28-0	1038	11633		2	EFSA
15.019	2,4,5-Trimethylthiazole	13623-11-5	1036	11650			EFSA
15.020	2-Acetylthiazole	24295-03-2	1041	11726			EFSA
15.021	2-Ethoxythiazole	15679-19-3	1056	11611			EFSA
15.022	2-(sec-Butyl)thiazole	18277-27-5	1033	11598			EFSA
15.023	4,5-Dihydro-2-methylthiophene-3(2H)-one	13679-85-4	499	11601			JECFA
15.024	3-Acetyl-2,5-dimethylthiophene	2530-10-1	1051	11603		2	EFSA
15.025	3,5-Dimethyl-1,2,4-trithiolane	23654-92-5	473	11883			JECFA
15.026	2-Isopropyl-4-methylthiazole	15679-13-7	1037				EFSA
15.027	2-Propionylthiazole	43039-98-1	1042				EFSA
15.029	2-(sec-Butyl)-4,5-	65894-82-8	1059			2	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	dimethyl-3-thiazoline							
15.030	4,5-Dimethyl-2-ethyl-3-thiazoline	76788-46-0058				2		EFSA
15.032	4,5-Dimethyl-2-isobutyl-3-thiazoline	65894-83-9045				2		EFSA
15.033	2-Ethyl 4-methylthiazole	15679-12-6044	11612					EFSA
15.034	2-Methyl-1,3-dithiolane	5616-51-3534						JECFA
15.035	4-Methylthiazole	693-95-8 1043	11627					EFSA
15.036	3-Methyl-1,2,4-trithiane	43040-01-374						JECFA
15.038	2-Acetyl-4-methylthiazole	7533-07-5	11589					EFSA
15.039	2-Acetyl-5-methylthiazole	59303-17-2						EFSA
15.040	2-Acetylthiophene	88-15-3	11728			2		EFSA
15.044	2-Butylthiazole	37645-61-7	11597					EFSA
15.045	2-Butylthiophene	1455-20-5				4		EFSA
15.047	3,5-Di-isobutyl-1,2,4-trithiolane	92900-67-9						EFSA
15.048	3,5-Di-isopropyl-1,2,4-trithiolane	54934-99-5						EFSA
15.049	3,5-Diethyl-1,2,4-trithiolane	54644-28-9686						EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

15.050	2,5-Diethyl-4-methylthiazole	41981-71-9					EFSA
15.051	2,5-Diethyl-4-propylthiazole	4276-68-0					EFSA
15.052	2,5-Diethylthiazole	15729-76-7					EFSA
15.054	Dihydro-2,5,4-triethyl-1,3,5(4H)-dithiazine	254617-17-8				3	EFSA
15.055	2,4-Dimethyl(4H)pyrrolidino[1,2e]-1,3,5-dithiazine	116505-601763				3	EFSA
15.056	3,6-Dimethyl-1,2,4,5-tetrathiane	67411-27-2					EFSA
15.057	4,6-Dimethyl-2-(1-methylethyl)dihydro-1,3,5-dithiazine	104691-40-9		At least 44% isopropyl-4,6-dimethyl and 27% 4-isopropyl-2,6-dimethyl; secondary components at least 24% 2,4,6-trimethyldihydro-1,3,5-dithiazine; 6-methyl-2,4-diisopropyl-1,3,5-dithiazine; 4-methyl-2,6-diisopropyl-1,3,5-dithiazine; 2,4,6-triisopropyl-dihydro-1,3,5-dithiazine		3	EFSA
15.058	4,5-Dimethyl-2-ethylthiazole	873-64-3					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

15.060	2,4-Dimethyl-3-thiazoline	60755-05-7				2	EFSA
15.061	2,5-Dimethyl-4-ethylthiazole	32272-57-4					EFSA
15.062	2,4-Dimethylthiazole	541-58-2	456	11605			EFSA
15.063	2,5-Dimethylthiazole	4175-66-0	1758				EFSA
15.064	2,5-Dimethylthiophene	638-02-8				4	EFSA
15.066	1,4-Dithiane	505-29-3	456				JECFA
15.067	4-Ethyl-2-methylthiazole	32272-48-3					EFSA
15.068	5-Ethyl-2-methylthiazole	19961-52-5					EFSA
15.069	4-Ethyl-5-methylthiazole	52414-91-2					EFSA
15.071	2-Ethylthiazole	15679-09-1					EFSA
15.072	2-Ethylthiophene	872-55-9		11614		4	EFSA
15.074	5-Ethylthiophene-2-carbaldehyde	36880-33-8				2	EFSA
15.076	2-Hexylthiophene	18794-77-9	1764	11616		4	JECFA/ EFSA
15.078	2-Isobutyl-4,5-dimethylthiazole	53498-32-1		11617			EFSA
15.079	2-Isobutyl-4,6-dimethyl-1,3,5-dithiazine	101517-87-7			At least 64% 2-isobutyl-4,6-dimethyl and 18% 4-isobutyl-2,6-dimethyl; secondary components	3	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

					at least 13% 2,4,6-trimethyl-1,3,5-dithiazine; 2,4-diisobutyl-6-methyl-1,3,5-dithiazine; 2,6-dimethyl-4-butyl-dihydro-1,3,5-dithiazine; substituted 1,3,5-thiadiazine		
15.080	2-Isopropyl-4,5-dimethylthiazole	53498-30-9					EFSA
15.081	Lenthionin	292-46-6	11619				EFSA
15.082	3-Mercaptothiophene	7774-73-4					EFSA
15.083	3-Methyl-1,2,4-trithiolane	51647-38-2					EFSA
15.084	5-Methyl-2-pentylthiazole	86290-21-3					EFSA
15.085	4-Methyl-2-propionylthiazole	13679-83-9	11622				EFSA
15.086	2-Methyl-2-thiazoline	2346-00-1				2	EFSA
15.087	2-Methyl-3-mercaptothiophene	2527-76-6					EFSA
15.089	2-Methylthiazole	3581-87-1	11626				EFSA
15.091	2-Methylthiophene	554-14-3	11631			4	EFSA
15.092	3-Methylthiophene	616-44-4	11632			4	EFSA
15.093	2-Octylthiophene	880-36-4				4	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

15.096	2-Pentylthiophene	4861-58-9		11634			4	EFSA
15.097	2-Propionylthiophene	13679-75-9		11635			2	EFSA
15.098	2-Propylthiazole	17626-75-4						EFSA
15.103	1,2,4,5-Tetrathiane	291-22-5						EFSA
15.108	2-Thiophenemethanethiol	6258-63-5						EFSA
15.109	2,4,6-Trimethyl-dihydro-1,3,5(4H)-dithiazine	638-17-5	1049	11649			3	EFSA
15.110	2,4,6-Trimethyl-1,3,5-trithiane	2765-04-0						EFSA
15.111	1,2,4-Trithiolane	289-16-7						EFSA
15.113	5,6-Dihydro-2,4,6-tris(2-methylpropyl)4H-1,3,5-dithiazine	74595-94-1	1048				3	EFSA
15.115	2-Isobutyl-4-methylthiazole	61323-24-8						EFSA
15.116	2-Acetyl-4-ethylthiazole	233665-91-3						EFSA
15.118	4-Butylthiazole	53833-33-3						EFSA
15.119	2-Isobutyl-3-thiazoline	39800-92-5					2	EFSA
15.126	3-(Methylthio)-methylthiophen	61675-72-1	1765					EFSA
15.128	2-Propionyl-2-thiazoline	29926-42-9	1760				2	EFSA
15.130	5-Ethyl-4-methyl-2-	83418-53-1	1761				2	EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	(2-methylpropyl)-thiazoline							
15.131	5-Ethyl-4-methyl-2-(2-butyl)-thiazoline	83418-54-6762					2	EFSA
15.134	2,5-Dihydroxy-1,4-Dithiane	40018-26-650					1	EFSA
15.135	Ethyl thialdine	54717-14-5			At least 90%, secondary components less than 5% 3,5-diethyl-1,2,4-trithiolane, less than 2% thialdine, less than 3% other impurities		3	EFSA
16.001	Ammonium isovalerate	7563-33-91203	464					EFSA
16.002	Diammonium sulphide	12135-76-1	482					EFSA
16.006	N-Nonanoyl 4-hydroxy-3-methoxybenzylamide	2444-46-41599	590					EFSA
16.007	Hydrogen sulfide	7783-06-41658	647					EFSA
16.009	Ammonia	7664-41-7	739					EFSA
16.012	Glycyrrhizic acid	1405-86-3	2221			In categories 1 and 3 – not more than 375 mg/kg		EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

						<p>In category 5 – not more than 1 500 mg/kg</p> <p>In category 5.3 – not more than 5 000 mg/kg</p> <p>In category 7 – not more than 200 mg/kg</p> <p>In category 8 – not more than 25 mg/kg</p> <p>In category 9 – not more than 20 mg/kg</p> <p>In category 14.1 – not more than 50 mg/kg</p> <p>In category 14.2 – not more than 550 mg/kg</p>	
16.013	N-Ethyl-2-isopropyl-5-	39711-79-0	0601	2298			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	methylcyclohexane carboxamide						
16.015	Ethyl methylphenylglycidate	77-83-8	1577	6002			EFSA
16.016	Caffeine	58-08-2		11741		Restrictions for use as a flavouring substance: In category 1 – not more than 70 mg/kg In category 3 – not more than 70 mg/kg In category 5 – not more than 100 mg/kg In category 14.1 – not more than 150 mg/kg	EFSA
16.018	Ethyl 3-phenyl-2,3-epoxypropionate	121-39-1	1576	11844			EFSA
16.027	Thiamine hydrochloride	67-03-8	1030	10493			EFSA
16.030	2-Methyl-4-propyl-1,3-oxathiane	67715-80-4	464	11540			JECFA
16.032	Theobromine	81-67-0				Restrictions for use as a	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

						flavouring substance: In category 1 – not more than 70 mg/kg In category 14.1 – not more than 100 mg/kg	
16.039	Potassium 2-(1'-ethoxy)ethoxypropanoate	933					EFSA
16.040	Ethyl 2,3-epoxy-3-methyl-3-p-tolylpropionate	74367-97-8	578	11707			EFSA
16.041	Sodium 2-(4-methoxyphenoxy)propionate	13794-15-1	1029				EFSA
16.043	beta-Caryophyllene epoxide	1139-30-6	1575	10500		2	EFSA
16.048	Ammonium chloride	2125-02-9					EFSA
						In categories 1, 8, 9, and 15 – not more than 3 g/kg In category 5 – <i>quantum satis</i> In category 12 – not more than 3g/kg except	

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

						for salt substitutes 40g/kg In category 14.2 – not more than 25 g/l	
16.052	1,6-Hexalactam	105-60-2	1594				EFSA
16.053	2-Isopropyl-N,2,3-trimethylbutanamide	51115-67-4	4595	10459			EFSA
16.055	(R)-(+)-Sclareolide	564-20-5	1165				EFSA
16.056	Taurine	107-35-7	1435				EFSA
16.058	Naringin	10236-47-2		10286			EFSA
16.059	Ammonium hydrogen sulphide	12124-99-1		482			EFSA
16.060	Glycyrrhizic acid, ammoniated	53956-04-0		2221		In category 1 – not more than 40 mg/kg In category 3 – not more than 90 mg/kg In category 5 – not more than 1 500 mg/kg In category 5.3 - not more than 5	EFSA

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

						000 mg/ kg In category 6 – not more than 45 mg/ kg In categories 7 and 13 – not more than 60 mg/ kg In category 9 – not more than 300 mg/ kg In category 11 – not more than 100 mg/ kg In category 12 – not more than 50 mg/ kg In categories 14.1 and 14.2 – not more than 200 mg/ kg In category 15 – not more than 150 mg/ kg		
--	--	--	--	--	--	--	--	--

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

16.061	Neohesperidin dihydrochalcone	20702-77-6				Restrictions for use as a flavouring substance: In categories 1, 3, 4.2, 6, 8, 9, 10, 12 and 14 - not more than 3 mg/kg In categories 2, 5 and 7 - not more than 4 mg/kg In category 15 – not more than 5 mg/kg	EFSA
16.062	trans-2-Methyl-4-propyl-1,3-oxathiane	59324-17-3					EFSA
16.071	4,5-Epoxydec-2-enal	188590-621370			At least 87%; secondary component 8-9% 4,5-epoxydec-2(cis)-enal	1	EFSA
16.073	Sodium diacetate	126-96-5					EFSA
16.075	Ethyl vanillin beta-D-glucopyranoside	122397-96802					EFSA
16.080	Tannic acid	72401-53-7	746				SCF/CoE
16.081	Sucrose octaacetate	126-14-7	11819				EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

16.083	5,7-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-2,3-dihydro-4H-chromen-4-one sodium salt	462631-45-4					EFSA
16.087	Dianthramin B	579-93-1	1552				EFSA
16.088	l-Menthylmethylether	1565-76-0	1415				EFSA
16.089	Ferric ammonium citrate	1185-57-5					EFSA
16.090	3-(3,4-Dimethoxyphenyl)-N-[2-(3,4-dimethoxyphenyl)-ethyl]-acrylamide	69444-90-1	2777			3	EFSA
16.091	Deca-(2E,4E)-dienoic acid isobutylamide	18836-52-7	7598			4	EFSA
16.092	(1R,2S,5R)-N,N-Dimethylmenthyl succinamide	544714-08-1	602				EFSA
16.094	N-Ethyl (2E,6Z)-nonadienamide	608514-56-3	396			4	EFSA
16.095	Cyclopropylidene, N-[(2E)-3,7-dimethyl-2,6-octadien-1-yl]-	714251-03-7	179			1	EFSA
16.096	Ferrous lactate	5905-52-2					EFSA
16.097	Hesperetin	520-33-2					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

16.098	N-(1-Propylbutyl)-1,3-benzodioxole-5-carboxamide	745047-511267					EFSA
16.099	N-(2,4-Dimethoxybenzyl)-N'-(2-pyridin-2-yl-ethyl)-oxalamide	745047-531468					EFSA
16.100	N1-(2-Methoxy-4-methylbenzyl)-N2-(2-(5-methylpyridin-2-yl)ethyl)oxalamide	745047-941369					EFSA
16.101	N1-(2-Methoxy-4-methylbenzyl)-N2-(2-(pyridin-2-yl)ethyl)oxalamide	745047-971670					EFSA
16.102	2,3,4,5,6-Pentahydroxy-N-(2-hydroxyethyl)-hexanamide	686298-931772					EFSA
16.103	Propanamide, 2-hydroxy-N-(2-hydroxyethyl)-	6422-34-41774					EFSA
16.104	2-[(2-Hydroxypropanoyl)amino]ethyl dihydrogen phosphate	782498-031775					EFSA
16.105	(2R,3S,4S,5R)-2-[[2,3,4,5,6-Pentahydroxyhexanoyl)amino]ethyl dihydrogen phosphate	781807-201073					EFSA
16.107	2-Hydroxy-N-[2-(4-	781674-18-8					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

	hydroxyphenyl)ethyl]-propionamide						
16.109	3-(4-Hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)propan-1-one	60-82-2					EFSA
16.110	Naringin dihydrochalcone	18916-17-1					EFSA
16.111	Glycine, N-[[[(1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl]carbonyl]-, ethyl ester.	68489-14-5	1776			1	EFSA
16.112	Trilobatin	4192-90-9					EFSA
16.113	Rebaudioside A	58543-16-1				Restrictions for use as a flavouring substance: In categories 1, 3, 4.2, 5, 6, 12, 14.1 and 14.2 – not more than 10 mg/kg	EFSA
16.114	2-Pentyl-4-propyl-1,3-oxathiane	59323-81-8					EFSA
16.115	Cyclopropane-1-carboxylic acid (2-isopropyl-5-methyl-cyclohexyl)-amide	95866-02-1	1106			4	EFSA
16.116	4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one	121746-18-7					EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

16.117	N-p-Benzeneacetonitrile-menthancarboxamide	852379-28209				1	EFSA
16.118	N-(2-(Pyridine-2-yl)ethyl)-3-p-menthancarboxamide	847565-09208				3	EFSA
16.119	N-(2-Methylcyclohexyl)-2,3,4,5,6-pentafluorobenzamide	1003050-32-5				4	EFSA
16.120	4-Amino-5,6-dimethylthieno[2,3-d]pyrimidin-2(1H)-one hydrochloride	1033366-59-4					EFSA
16.121	Spilanthol	125394-57-4		Mixture of isomers of (2E,6Z,8E)-N-(2-methylpropyl)-2,6,8-decatrienamide: 74% (2E,6Z,8E)-, 17% (2E,6E,8E)-, 6% (2E,6E,8Z)-, 1% (2Z,6Z,8E)-, 0.5% (2E,6E,8E)-, 1% (2Z,6Z,8Z)-isomer, 1.5% other isomers.		3	EFSA
16.122	4-Methyl, 2-propyl, 1-3-oxathiane	1064678-08-5					EFSA
16.123	(1R,2S,5R)-N-(4-	108489-09-8				1	EFSA



**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

	Methoxyphenyl)-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide						
16.124	(1R,2S,5R)-N-cyclopropyl-5-methyl-2-isopropylcyclohexanecarboxamide	3435-61-7				1	EFSA
16.125	(2S,5R)-N-[4-(2-amino-2-oxoethyl)phenyl]-5-methyl-2-(propan-2-yl)cyclohexanecarboxamide	1119711-29-3				1	EFSA
16.126	3-[(4-amino-2,2-dioxido-1H-2,1,3-benzothiadiazin-5-yl)oxy]-2,2-dimethyl-N-propylpropanamide	1093200-92-0				1	EFSA
17.001	beta-Alanine	107-95-9	1418				EFSA
17.002	L-Alanine	56-41-7		11729			EFSA
17.003	L-Arginine	74-79-3	1438	11890			EFSA
17.005	Aspartic acid	56-84-8	1429	10078			EFSA
17.006	L-Cystine	56-89-3		11747			EFSA
17.007	Glutamine	56-85-9	1430				EFSA
17.008	L-Histidine	71-00-1	1431				EFSA
17.010	D,L-Isoleucine	443-79-8	1422	10127			EFSA
17.012	L-Leucine	61-90-5	1423	10482			EFSA
17.013	D,L-Lysine	70-54-2		11947			EFSA

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

17.014	D,L-Methionine	59-51-8	1424	569				EFSA
17.015	S-Methylmethioninesulphonium chloride	1115-84-0	1427	761				EFSA
17.017	D,L-Phenylalanine	150-30-1	1432	10488				EFSA
17.018	L-Phenylalanine	63-91-2	1428	10488				EFSA
17.019	L-Proline	147-85-3	1425	10490				EFSA
17.020	D,L-Serine	302-84-1						EFSA
17.021	D,L-Threonine	80-68-2						EFSA
17.022	L-Thyrosine	60-18-4	1434					EFSA
17.023	D,L-Valine	516-06-3	1426					EFSA
17.024	D,L-Alanine	302-72-7	1437	11729				EFSA
17.026	L-Lysine	56-87-1	1439	11947				EFSA
17.027	L-Methionine	63-68-3						EFSA
17.028	L-Valine	72-18-4						EFSA
17.031	L-(+)-Lysine monohydrochloride	657-27-2		11947				EFSA
17.032	L-Cysteine hydrochloride	52-89-1		11746				EFSA
17.033	L-Cysteine	52-90-4	1419	10464				EFSA
17.034	Glycine	56-40-6	1421	11771				EFSA
17.035	4-Amino-butyric acid	56-12-2	1771					EFSA
17.036	S-allyl-L-cysteine	21593-77-1	1710					EFSA

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

17.037	L-Methionylglycine	14486-03-4				1	EFSA
--------	--------------------	------------	--	--	--	---	------

PART B

**Flavouring preparations**

PART C

**Thermal process flavourings**

PART D

**Flavour precursors**

PART E

**Other flavourings**

PART F

**Source materials**

---

**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

---

- (1) [OJ L 299, 23.11.1996, p. 1.](#)
- (2) [OJ L 354, 31.12.2008, p. 34.](#)
- (3) [OJ L 84, 27.3.1999, p. 1.](#)
- (4) [OJ L 180, 19.7.2000, p. 8.](#)
- (5) <http://www.efsa.europa.eu/>
- (6) Annex 6 to the minutes of the 98th meeting of the Scientific Committee on Food, 21 and 22 September 1995.
- (7) Flavouring substances and natural sources of flavourings, Volume I, *Chemically-defined flavouring substances*, Fourth Edition. Council of Europe, *Partial agreement in the social and public health field*, Strasbourg, 1992, including its subsequent loose-leaf modifications until year 1999.
- (8) Evaluation of certain food additives and contaminants. 46th Report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series No. 868, 1997.  
49th Report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series No. 884, 1999.  
51st Report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series, No. 891, 2000.  
53rd Report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series, No. 896, 2000.
- (9) [OJ L 354, 31.12.2008, p. 16.](#)
- (10) [OJ L 128, 21.5.2005, p. 73.](#)
- (11) [OJ L 91, 29.3.2006, p. 48.](#)
- (12) [OJ L 163, 24.6.2008, p. 42.](#)
- (13) [OJ L 354, 31.12.2008, p. 1.](#)
- (14) Scientific opinion of the Panel on Food Additives, Flavourings, Processing Aids and Materials in contact with Food (AFC) on a request from the Commission on Camphor in flavourings and other food ingredients with flavouring properties. The EFSA Journal 729, 1-15.
- (15) Report of the Scientific Committee for Food on Quinine (opinion expressed on 19 February 1988). In Food - Science and techniques. Reports of the Scientific Committee for Food twenty-first series). Internal Market and Industrial Affairs Directorate-General.
- (16) Scientific Opinion of the Panel on Food Additives, Flavourings, Processing Aids and Materials in Contact with Food on a request from Commission on Flavouring Group Evaluation 35 (FGE.35). Three quinine salts from the Priority list from chemical group 30. The EFSA Journal (2008) 739, 1-18.
- (17) Scientific Opinion of the Panel on Food Additives, Flavourings, Processing Aids and Materials in Contact with Food (AFC) on a request from the Commission on Flavouring Group Evaluation 36 (FGE.36). Two triterpene glycosides from the priority list. The EFSA Journal (2008) 740, 1-19.
- (18) Opinion of the Scientific Committee on Food on glycyrrhizinic acid and its ammonium salt (expressed on 4 April 2003). Scientific Committee on Food. SCF/CS/ADD/EDUL/225 Final. 10 April 2003. European Commission, Health & consumer Protection Directorate-General.
- (19) [OJ L 124, 20.5.2009, p. 21.](#)
- (20) See page 162 of this Official Journal.

**Changes to legislation:**

There are outstanding changes not yet made to Commission Implementing Regulation (EU) No 872/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

[View outstanding changes](#)

**Changes and effects yet to be applied to :**

- Art. 4 word substituted by [S.I. 2019/860 reg. 158](#)
- Art. 5 word substituted by [S.I. 2019/860 reg. 159](#)
- Art. 6(2) omitted by [S.I. 2019/860 reg. 160](#)
- Art. 7 words omitted by [S.I. 2019/860 reg. 161](#)
- Art. 9 omitted by [S.I. 2019/860 reg. 162](#)

**Changes and effects yet to be applied to the whole legislation item and associated provisions**

- Signature words omitted by [S.I. 2019/860 reg. 163](#)
- Art. 1(a) word substituted by [S.I. 2019/860 reg. 157\(a\)](#)
- Art. 1(b) word substituted by [S.I. 2019/860 reg. 157\(b\)\(ii\)](#)
- Art. 1(b) words omitted by [S.I. 2019/860 reg. 157\(b\)\(i\)](#)
- Art. 1(c) word substituted by [S.I. 2019/860 reg. 157\(c\)\(ii\)](#)
- Art. 1(c) words omitted by [S.I. 2019/860 reg. 157\(c\)\(i\)](#)