



JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON FOOD ADDITIVES

Forty-third Session

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SPECIFICATIONS FOR THE IDENTITY AND PURITY OF FOOD ADDITIVES ARISING FROM THE 73RD JECFA MEETING

Governments and international organizations in Observer status with the Codex Alimentarius Commission wishing to submit comments at Step 3 on the following subject matter are invited to do so **no later than 31 January 2011** as follows: Secretariat, Codex Committee on Food Additives, National Institute of Nutrition and Food Safety, China CDC, 7 Panjiayuan Nanli, Chaoyang District, Beijing 100021, China (Telefax: + 86 10 67711813, E-mail: secretariat@ccfa.cc *preferably*), with a copy to the Secretariat, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (Telefax: +39 06 5705 4593; E-mail: Codex@fao.org - *preferably*).

BACKGROUND

1. Specifications for 186 food additives (7) and flavourings (179) were discussed and prepared or reviewed at the 73rd JECFA meeting (Geneva, June 2010) and the resulting monographs are available (in English only) on JECFA Online Edition of: "Combined Compendium of Food Additive Specifications" <http://www.fao.org/ag/agn/jecfa-additives/search.html?lang=en> and "Specifications for Flavourings" <http://www.fao.org/ag/agn/jecfa-flav/search.html> . Monographs resulting from the 73rd JECFA meeting will be published as FAO JECFA Monographs 10, FAO, Rome, 2010. The publication will be available to download as pdf-document at the FAO JECFA website at: http://www.fao.org/ag/agn/agns/jecfa_output_en.asp .

2. In addition, revision to correct certain food additive and flavouring specifications were made by the JECFA Secretariat.

3. These specifications cover:

	Food Additives	Flavourings
New:	1	177
Revised:	6	2
Revised – not republished	8	1
Full:	14	180
Tentative:	1	0
Withdrawn:	1	0

4. The CCFA is being asked to review these specifications, in particular those designated as "Full", with a view to recommending their adoption by the Commission as Codex Specifications, taking into account comments received.

5. The 6 food additives given full (new and revised) specifications at the 73rd JECFA are listed in the Annex. Separate lists of the food additives for which specifications were designated as tentative, withdrawn or revised without being republished are also given in the Annex with explanations.

6. Minor editorial revisions and corrections were made to the limits and information relating to metals and arsenic as published in FAO JECFA Monographs 1 (2005,2006), Combined Compendium of Food Additive Specifications for 8 food additives. The corrected limits and information correspond to those agreed by the JECFA and published in the reports of relevant meetings (57th, 59th and 63rd meetings of JECFA). These food additives are listed in the Annex.
7. All of the 177 new flavourings reviewed during the 73rd JECFA meeting were given full specifications (JECFA No. 1898-2042, 2044-2068 and 2070-2076). The JECFA names are listed by JECFA number in the Annex. The reason that the flavourings assigned JECFA No. 2043 and No. 2069 is that the substances did not fit in the chemical classes in which they had been suggested to be included.
8. The full specifications prepared for the flavourings with JECFA Nos 1914, 1931, 1939, 1941, 1943, 1944, 1973, 1988, 2005, 2007, 2010, 2011 and 2046, by the JECFA include a statement that the safety evaluations for these substances had not been completed at the 73rd JECFA meeting due to lack of data. The CCFA may consider whether or not to adopt the specifications for these flavourings.
9. The specifications for flavouring substances 4-Carvomenthenol (JECFA No. 432) and 5,6,7,8-Tetrahydroquinoxaline (JECFA No. 952) were revised.
10. Finally, the C.A.S. number, name and synonyms for the flavouring cis- and trans linalool oxide (JECFA No. 1454) were corrected in the On-line edition of the JECFA flavouring specifications, as the name in the specifications, published in Food And Nutrition Paper 52., Add. 12, did not correspond to those in the JECFA report (63rd meeting of JECFA, WHO Technical Report Series No 928, 2005, p. 108) and to the substance that had been evaluated. The correct C.A.S. number for the racemic mixture of linalool oxide is 60047-17-8. The Committee is invited to adopt the revised specifications for cis- and trans-linalool oxide.

SPECIFICATIONS RESULTING FROM THE 73RD JECFA**FOOD ADDITIVES****SPECIFICATIONS DESIGNATED AS FULL AT THE 73RD JECFA (FAO JECFA Monographs 10, Rome, 2010):¹**

Activated carbon (R)
Cassia gum (R) (INS 427)
Indigotine (R) (INS 132)
Steviol glycosides (R) (INS 960)
Sucrose esters of fatty acids (R) (INS 473)
Titanium dioxide (R) (INS 171)

SPECIFICATIONS DESIGNATED AS TENTATIVE AT THE 73RD JECFA (FAO JECFA Monographs 10, Rome, 2010):¹

Sucrose monoesters of lauric, palmitic or stearic acid (N, T)

SPECIFICATIONS WITHDRAWN BY THE 73RD JECFA:

Annatto extract (oil-processed bixin) Insufficient information received to allow removal of the tentative designation.

SPECIFICATIONS REVISED WITHOUT BEING REPUBLISHED (available in the electronic version of the specifications at the FAO JECFA website):

Carotenes (Algae) (INS 160a(iv))
Carotenes (Vegetable) (INS 160a(ii))
Calcium silicate (INS 552)
Ferric ammonium citrate (INS 381)
Grape skin extract (INS 163(ii))
Potassium carbonate (INS 501)
Trimagnesium phosphate (INS 343(iii))
Trisodium phosphate (INS 339(iii))

¹ (N) new specification; (R) revised specification.

FLAVOURINGS**JECFA NAMES FOR FLAVOURINGS GIVEN FULL SPECIFICATIONS BY THE 73RD JECFA****New specifications**

1898	Methyl dihydrojasmonate
1899	cis-4-(2,2,3-Trimethylcyclopentyl)butanoic acid
1900	Mixture of 2,4-, 3,5- and 3,6-Dimethyl-3-cyclohexenylcarbaldehyde
1901	Perillaldehyde propyleneglycol acetal
1902	(+/-)-cis- and trans-1,2-Dihydroperillaldehyde
1903	d-Limonen-10-ol
1904	p-Menthan-7-ol
1905	p-Menth-1-en-9-ol
1906	1,3-p-Menthadien-7-al
1907	cis- and trans-2-Heptylcyclopropanecarboxylic acid
1908	(+/-)-cis- and trans-2-Methyl-2-(4-methyl-3-pentenyl)cyclopropanecarbaldehyde
1909	Methyl octyl sulfide
1910	Methyl 1-propenyl sulfide
1911	Di-(1-propenyl) sulfide (mixture of isomers)
1912	Ethyl 2-hydroxyethyl sulfide
1913	2-(Methylthio)ethyl acetate
1914	3-(Methylthio)propyl mercaptoacetate
1915	Ethyl 3-(methylthio)-(2Z)-propenoate
1916	Ethyl 3-(methylthio)-(2E)-propenoate
1917	Ethyl 3-(methylthio)-2-propenoate (mixture of isomers)
1918	4-Methyl-2-(methylthiomethyl)-2-pentenal
1919	4-Methyl-2-(methylthiomethyl)-2-hexenal
1920	5-Methyl-2-(methylthiomethyl)-2-hexenal
1921	Butyl beta-(methylthio)acrylate
1922	Ethyl 3-(ethylthio)butyrate
1923	2-Oxothiolane
1924	Dodecanethiol
1925	2-Hydroxyethanethiol
1926	4-Mercapto-4-methyl-2-hexanone
1927	3-Mercapto-3-methylbutyl isovalerate
1928	(+/-)-Ethyl 3-mercapto-2-methylbutanoate
1929	3-Mercaptohexanal
1930	Diisoamyl disulfide
1931	Bis(2-methylphenyl) disulfide
1932	Butyl propyl disulfide
1933	di-sec-Butyl disulfide
1934	Diisoamyl trisulfide
1935	Methyl 2-methylphenyl disulfide
1936	3-Mercaptopropionic acid
1937	Methyl isobutanethioate
1938	2-Ethylhexyl 3-mercaptopropionate
1939	Butanal dibenzyl thioacetal
1940	Methional diethyl acetal
1941	3-(Methylthio)propyl hexanoate
1942	1-(3-(Methylthio)-butyryl)-2,6,6-trimethylcyclohexene
1943	(+/-)-cis- and trans-2-Pentyl-4-propyl-1,3-oxathiane
1944	2-Pentenyl-4-propyl-1,3-oxathiane (mixture of isomers)
1945	Hydroxyacetone

1946	Propyl pyruvate
1947	Methyl 3-hydroxybutyrate
1948	Dodecyl lactate
1949	(+/-)-Ethyl 3-hydroxy-2-methylbutyrate
1950	Hexadecyl lactate
1951	Methyl 3-acetoxy-2-methylbutyrate
1952	1-Hydroxy-4-methyl-2-pentanone
1953	Ethyl 2-acetylhexanoate
1954	3-Isopropenyl-6-oxoheptanoic acid
1955	Ethyl 3-hydroxyoctanoate
1956	Methyl 3-acetoxyoctanoate
1957	5-Oxooctanoic acid
1958	Ethyl 2-acetyloctanoate
1959	Ethyl 5-acetoxyoctanoate
1960	5-Oxodecanoic acid
1961	Ethyl 5-oxodecanoate
1962	Ethyl 5-hydroxydecanoate
1963	5-Oxododecanoic acid
1964	Dimethyl adipate
1965	Dipropyl adipate
1966	Diisopropyl adipate
1967	Diisobutyl adipate
1968	Dioctyl adipate
1969	Ethyl acetoacetate ethyleneglycol ketal
1970	Methyl levulinate
1971	Propyl levulinate
1972	Isoamyl levulinate
1973	Ethyl levulinate propyleneglycol ketal
1974	cis-3-Hexenyl acetoacetate
1975	Hydroxycitronellal propyleneglycol acetal
1976	Propyleneglycol diacetate
1977	Mixture of 6-(5-decenoyloxy)decenoic acid and 6-(6-decenoyloxy)decenoic acid
1978	Propyleneglycol dipropionate
1979	Propyleneglycol monobutyrate (mixture of isomers)
1980	Propyleneglycol dibutyrate
1981	Propyleneglycol mono-2-methylbutyrate (mixture of isomers)
1982	Propyleneglycol di-2-methylbutyrate
1983	Propyleneglycol monohexanoate (mixture of isomers)
1984	Propyleneglycol dihexanoate
1985	Propyleneglycol dioctanoate
1986	2-Oxo-3-ethyl-4-butanolide
1987	Ethyl 5-hydroxyoctanoate
1988	Mixture of Isopropylidenglyceryl 5-hydroxydecanoate and delta-decalactone
1989	5-Pentyl-3H-furan-2-one
1990	5-Hydroxy-4-methylhexanoic acid delta-lactone
1991	Isoambrettolide
1992	7-Decen-4-olide
1993	9-Decen-5-olide
1994	8-Decen-5-olide
1995	Orin lactone
1996	9-Dodecen-5-olide
1997	9-Tetradecen-5-olide

1998	gamma-Octadecalactone
1999	delta-Octadecalactone
2000	4-Hydroxy-2-butenic acid gamma-lactone
2001	2-Nonenoic acid gamma-lactone
2002	4-Hydroxy-2,3-dimethyl-2,4-nonadienoic acid gamma-lactone
2003	Choline chloride
2004	3-(Methylthio)propylamine
2005	N-Ethyl-2,2-diisopropylbutanamide
2006	Cyclopropanecarboxylic acid (2-isopropyl-5-methyl-cyclohexyl)-amide
2007	(+/-)-N-Lactoyl tyramine
2008	N-(2-(Pyridin-2-yl)ethyl)-3-p-menthancarboxamide
2009	N-p-Benzeneacetonitrile menthancarboxamide
2010	N-(2-Hydroxyethyl)-2,3-dimethyl 2-isopropylbutanamide
2011	N-(1,1-Dimethyl-2-hydroxyethyl)-2,2-diethylbutanamide
2012	4-Propenylphenol
2013	2,4,6-Trimethylphenol
2014	Sodium 3-methoxy-4-hydroxycinnamate
2015	Guaiacol butyrate
2016	Guaiacol isobutyrate
2017	Guaiacol propionate
2018	4-(2-Propenyl)phenyl-beta-D-glucopyranoside
2019	Phenyl butyrate
2020	Hydroxy(4-hydroxy-3-methoxyphenyl)acetic acid
2021	1-(4-Hydroxy-3-methoxyphenyl)-decan-3-one
2022	3-(4-Hydroxy-phenyl)-1-(2,4,6-trihydroxy-phenyl)-propan-1-one
2023	Magnolol
2024	5,7-Dihydroxy-2-(3-hydroxy-4-methoxy-phenyl)-chroman-4-one
2025	Dimethylbenzyl carbinyl crotonate
2026	Dimethylbenzyl carbinyl hexanoate
2027	Caryophyllene alcohol
2028	Cubebol
2029	(-)-Sclareol
2030	(+)-Cedrol
2031	alpha-Bisabolol
2032	3-Methyl-2,4-nonedione
2033	Acetoin propyleneglycol ketal
2034	Mixture of 3-Hydroxy-5-methyl-2-hexanone and 2-Hydroxy-5-methyl-3-hexanone
2035	3-Hydroxy-2-octanone
2036	2,3-Octanedione
2037	4,5-Octanedione
2038	(+/-)-2-Hydroxypiperitone
2039	1,1'-(Tetrahydro-6a-hydroxy-2,3a,5-trimethylfuro[2,3-d]-1,3-dioxole-2,5-diyl)bis-ethanone
2040	4-Hydroxyacetophenone
2041	3-Hydroxy-4-phenylbutan-2-one
2042	2-Methoxyacetophenone
2044	2-Methylacetophenone
2045	2-Hydroxy-5-methylacetophenone
2046	Dihydrogalangal acetate
2047	2,3,3-Trimethylindan-1-one
2048	4-(3,4-Methylenedioxyphenyl)-2-butanone
2049	2-(trans-2-Pentenyl)cyclopentanone

2050	2-Cyclopentylcyclopentanone
2051	Cyclohexanone diethyl ketal
2052	2-Cyclohexenone
2053	3,3,5-Trimethylcyclohexyl acetate
2054	2,6,6-Trimethyl-2-hydroxycyclohexanone
2055	Cyclotene propionate
2056	Cyclotene butyrate
2057	4-(2-Butenyldiene)-3,5,5-trimethylcyclohex-2-en-1-one (mixture of isomers)
2058	4-Hydroxy-4-(3-hydroxy-1-butenyl)-3,5,5-trimethyl-2-cyclohexen-1-one (mixture of isomers)
2059	(-)-8,9-Dehydrotheaspiron
2060	(+/-)-2,6,10,10-Tetramethyl-1-oxaspiro[4.5]deca-2,6-dien-8-one
2061	Benzyl hexanoate
2062	o-Anisaldehyde
2063	Prenyl benzoate
2064	Benzyl levulinate
2065	4-Methylbenzyl alcohol
2066	Benzyl nonanoate
2067	4-Methylbenzaldehyde propyleneglycol acetal
2068	2-Ethylhexyl benzoate
2070	(+/-)-Octan-3-yl formate
2071	(R)-(-)-1-Octen-3-ol
2072	2-Pentyl 2-methylpentanoate
2073	3-Octyl butyrate
2074	2-Decanone
2075	6-Methyl-5-hepten-2-one propyleneglycol acetal
2076	2-Nonanone propyleneglycol acetal

Revised specifications

432	4-Carvomenthenol
952	5,6,7,8-Tetrahydroquinoxaline
1454	cis- and trans-Linalool oxide

NO FLAVOURINGS WERE GIVEN *TENTATIVE SPECIFICATIONS* BY THE 73RD JECFA