



**Food and Agriculture
Organization
of the United Nations**



**World Health
Organization**

JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES
Seventy-third meeting

Food additives and Contaminants

Geneva, 8 to 17 June 2010

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**LIST OF SUBSTANCES SCHEDULED FOR EVALUATION
AND REQUEST FOR DATA**

Attached is the list of substances (Annex 1) scheduled for evaluation or re-evaluation at the seventy-third meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA). This list has been prepared by the Joint FAO/WHO Secretariat of the Committee and is based on recommendations of the Codex Committee on Food Additives (CCFA), the Codex Committee on Contaminants in Foods (CCCF), previous Expert Committees, and direct requests from governments, other interested organizations, and producers of substances that have been evaluated previously.

Submission of data

Annex 1 lists the food additives and contaminants to be considered at the meeting. Governments, interested organizations, producers of these chemicals, and individuals are invited to submit data for the toxicological evaluations, for the preparation of specifications for the identity and purity and for estimating the intake of the compounds that are listed. The submitted data may be published or unpublished and should contain detailed reports of laboratory studies, including individual animal data. Reference to relevant published studies should also be provided, where applicable. Summaries in the form of monographs are helpful, but they are not in themselves sufficient for evaluation.

Unpublished confidential studies that are submitted will be safeguarded and will be used only for evaluation purposes by JECFA. Summaries of the studies will be published by FAO and WHO after the meetings in the form of specifications and toxicological monographs.

FAO and WHO have only limited data storage capacity. The submitted data can either be returned to submitters at their expense or destroyed after the evaluations have been completed. Please indicate the preferred procedure for data disposal at the time of submission. Key material can be stored up to five years and will then be destroyed. For substances that are being re-evaluated, the FAO and WHO Secretariats of JECFA encourage the sponsor to contact them before submission of data to determine whether documents and data reviewed at previous meetings of the Committee should be re-submitted.

The secretariats of JECFA at FAO and WHO encourage submission of data in electronic format. Such data should be presented preferably using standard word processing or document formats, and should be submitted on CD-ROMs. To facilitate review, an effort should be made to provide a "Table of contents" on each CD-ROM using fully descriptive file names.

Date for submission

The submission of data on those compounds listed in Annex 1 is requested before

1 December 2009.

This deadline applies to all data **including those for specifications for food additives.**

Toxicological data

Data relevant to the toxicological evaluations of the substances on the agenda including the results of studies:

1. metabolism and pharmacokinetic studies;
2. short-term toxicity, long-term toxicity/carcinogenicity, reproductive toxicity, and developmental toxicity studies in animals and genotoxicity studies;
3. epidemiological studies; and
4. special studies designed to investigate specific effects, such as the mechanism of toxicity, immune responses, or macromolecular binding

should be sent to:

Department of Food Safety and Zoonoses
Attention: Dr Angelika Tritscher
World Health Organization
Avenue Appia
1211 Geneva 27
Switzerland
Facsimile: (+41 (0)22)791 4848
Telephone: (+41 (0)22)791 3569
E-mail: jecfa@who.int

Three copies of the data are required, one for submission to the address above, one for submission directly to the WHO Temporary Adviser who will be reviewing the data (which should include a paper copy), and one for the Member assigned to peer review the working paper. Please contact the WHO Joint Secretary prior to submission of the data for information on where to send the copies.

Technological data

Data relevant to the manufacturing, quality, use, occurrence, identification and quantification of the substances on the agenda including:

1. specifications for the identity and purity of the listed food additives (specifications applied during development and toxicological studies; proposed specifications for material in commerce);
2. technological and nutritional considerations relating to the manufacture and use of the listed food additives;
3. levels of the listed food additives used in food or expected to be used in food based on technological function and the range of foods in which they are used;
4. levels and patterns of contamination in food commodities of the listed contaminants;
5. analytical techniques used by manufacturers or authorities for identifying and quantifying the listed substances;

6. sampling protocols for the listed contaminants;
7. effects of processing on levels of the listed contaminants in food as consumed; and
8. methods available for the prevention and control of the listed contaminants

Three copies of the data are required, one for submission to the address below, and two for submission directly to the FAO experts who will be reviewing the data. Please contact the FAO Joint Secretary prior to submission of the data for information on where to send the copies.

Nutrition and Consumer Protection Division
Attention: Dr. Annika Wennberg
Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla
00153 Rome
Italy
Facsimile: (+39) 06 5705 4593
Telephone: (+39) 06 5705 3283
E-mail: annika.wennberg@fao.org

Intake assessment data

All data relevant to:

1. technical levels of use of the additive in the foods in which it may be used;
2. annual poundage of the additive introduced into the food supply;
3. estimation of additive intakes based on food consumption data for foods in which the additive may be used;
4. levels and patterns of contamination in food commodities of the listed contaminants;
and
5. food consumption patterns;
6. effects of processing on levels of the listed contaminants in food as consumed

should be sent to the attention of Dr. Wennberg at FAO (address above) and to WHO under the address above (jecfa@who.int). Additional copies should be sent to the experts assigned for the exposure assessment, please contact the FAO or WHO Secretariat for information on where to send the copies.

Presentation of data

Please note that the above lists are not meant to be all-inclusive since it is recognized that other studies may, in some instances, assist in the evaluation.

Data on occurrence of the listed contaminants in food should be submitted according to GEMS/Food format. <http://www.who.int/foodsafety/chem/gems/en>

For more information please refer to the GEMS/Food Electronic Reporting Manual available at the WHO Website - <http://www.who.int/foodsafety/publications/chem/en/gemsmanual.pdf>.

Procedures for the evaluation of food additives and contaminants were published by WHO in 1987 (*Principles for the Safety Assessment of Food Additives and Contaminants in Food – Environmental Health Criteria No. 70*, available at <http://www.who.int/pcs/jecfa/ehc70.html>).

Specific procedural guidelines for food additives are as well available from FAO and WHO (see http://www.fao.org/ag/agn/jecfa/guidelines1_en.stm

and <http://www.who.int/ipcs/food/jecfa/guidelines/en/index.html>).

All relevant data, both positive and negative, should be submitted. Data should be presented, summarized and referenced in a clear and concise manner.

This call for data is available at both the FAO and WHO web sites:

http://www.fao.org/ag/agn/jecfa/whatisnew_en.stm

<http://www.who.int/ipcs/food/jecfa/data/en/index.html>

Annex 1

Joint FAO/WHO Expert Committee on Food Additives (JECFA) Seventy-third meeting, Geneva, 8-17 June 2010

List of substances scheduled for evaluation or re-evaluation

General information: Links to available electronic versions of the reports published in the WHO Technical Report Series, monographs published in the WHO Food Additives Series, and specifications that are referenced below are available at the JECFA web-pages of FAO and WHO. FAO and WHO procedural guidelines and guidelines for the preparation of chemical and technical assessments (CTA), toxicological working papers and guidelines for the preparation of working papers on contaminants, intake, and flavouring agents are available at <http://www.who.int/ipcs/food/jecfa/guidelines/en/> and http://www.fao.org/ag/agn/agns/jecfa_guidelines_en.asp. Appendix B of the guidelines for the preparation of working papers on the intake of food additives provides guidance to countries submitting their national assessments of intake.

Previous reports and monographs should be consulted to obtain background information on the previous evaluations. Detailed bibliographical references are available on page 13.

1. Contaminants for which requests have been received for evaluation or re-evaluation by the 3rd session of the Codex Committee on Contaminants in Foods (ALINORM 09/32/41 – Appendix XI)

Toxicological evaluation and exposure assessment

Contaminant	Reference (previous evaluations) and background	Information required
Cadmium	Sixty-fourth report of JECFA ⁽¹⁾ , FAS 55 ⁽²⁾ , Sixty-first report of JECFA ⁽³⁾ , FAS 52 ⁽⁴⁾ , Fifty-fifth report of JECFA ⁽⁵⁾ , FAS 46 ⁽⁶⁾ , Forty-first report of JECFA ⁽⁷⁾ , Thirty-third report of JECFA ⁽⁸⁾ , FAS 24 ⁽⁹⁾ , Sixteenth report of JECFA ⁽¹⁰⁾ . EFSA Scientific opinion ⁽¹¹⁾ and documents ⁽¹²⁾ on cadmium in foods (2009).	All information related to the toxicology, epidemiology, exposure assessment, analytical methodology, formation, fate and occurrence in food.
Lead	Fifty-third report of JECFA ⁽¹³⁾ , FAS 44 ⁽¹⁴⁾ , Forty-first report of JECFA ⁽⁷⁾ , Thirtieth report of JECFA ⁽¹⁵⁾ , FAS 21 ⁽¹⁶⁾ , Twenty-second report of JECFA ⁽¹⁷⁾ , FAS 13 ⁽¹⁸⁾ , Sixteenth report of JECFA ⁽¹⁰⁾ , FAS 4 ⁽¹⁹⁾ , Tenth report of JECFA ⁽²⁰⁾ . New studies indicate toxic effects at current blood levels of 10 mikrog/dl.	All information related to the toxicology, epidemiology, exposure assessment and analytical methodology, in particular for a dose-response analysis below blood levels of 10 mikrog/dl.

2. Food additives and flavourings for which requests have been received for evaluation or re-evaluation by the 41st session of the Codex Committee on Food Additives (ALINORM 09/32/12 – Appendix IX)

2.1 Food additives for revision of specifications

Food additive	Reference	Information required
Steviol glycosides	Sixty-ninth report of JECFA ⁽²¹⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 5 ⁽²²⁾ . Sixty-eighth report of JECFA ⁽²³⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 4 ⁽²⁴⁾ .	All information necessary for revision of specifications, in particular on the content of rebaudiosides D and F in materials of commerce and analytical methods for quantification.
Sucrose esters of fatty acids	Sixty-eighth report of JECFA ⁽²³⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 4 ⁽²⁴⁾ , Forty-ninth report of JECFA ⁽²⁵⁾ .	All information necessary for revision of specifications.

2.2. Flavourings - New compounds as additions to previously evaluated groups of related flavouring substances

JECFA No.	FEMA No.	CAS No.	Flavouring substance
ALICYCLIC PRIMARY ALCOHOLS, ALDEHYDES, ACIDS, AND RELATED ESTERS – previous group evaluation JECFA 59 – TRS 913⁽²⁶⁾			
			Structural Class I
1898	3408	24851-98-7	Methyl dihydrojasmonate
1899	4529	957136-80-0	4-(2,2,3-Trimethylcyclopentyl)butanoic acid
1900	4505	27939-60-2	(2,4) and (3,5) and (3,6)-Dimethyl-3-cyclohexenylcarbaldehyde
1901	4530	121199-28-8	Perillaldehyde propyleneglycol acetal
1902	4312	22451-50-9 22451-49-6	(+/-) cis- and trans-1,2-Dihydroperillaldehyde
1903	4504	38142-45-9	d-Limonen-10-ol
1904	4507	5502-75-0	p-Menthan-7-ol
1905	4508	18479-68-0	p-Menth-1-en-9-ol
1906	4506	1197-15-5	1,3-p-Menthadien-7-al
			Structural Class II
1907	4130	697290-77-0 (trans) 697290-76-9 (cis)	cis- and trans-2-Heptylcyclopropanecarboxylic acid
1908	4393	97231-35-1	(+/-)-cis- and trans-2-Methyl-2-(4-methyl-3-pentenyl)cyclopropanecarbaldehyde
SIMPLE ALIPHATIC AND AROMATIC SULFIDES AND THIOLS – previous group evaluation JECFA 53 – TRS 896⁽¹³⁾			
			Structural Class I
1909	4573	3698-95-1	Methyl octyl sulfide
1910	4574	10152-77-9	Methyl 1-propenyl sulfide
1911	4386	65819-74-1 37981-37-6 37981-36-5	Di-(1-propenyl)-sulfide (mixture of isomers)

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1912	4562	110-77-0	Ethyl 2-hydroxyethyl sulfide
1913	4560	5862-47-5	2-(Methylthio)ethyl acetate
1914	4561	852997-30-9	3-(Methylthio)propyl mercaptoacetate
1915	4563	136115-65-6	Ethyl 3-(methylthio)-cis-2-propenoate
1916	4564	136115-65-6	Ethyl 3-(methylthio)-trans-2-propenoate
1917	4565	136115-65-6	Ethyl 3-(methylthio)-2-propenoate
1918	4568	40878-73-7	4-Methyl-2-(methylthiomethyl)-2-pentenal
1919	4566	99910-84-6	4-Methyl-2-(methylthiomethyl)-2-hexenal
1920	4567	85407-25-6	5-Methyl-2-(methylthiomethyl)-2-hexenal
1921	4571	77105-53-4	Butyl beta-(methylthio)acrylate
1922	4572	90201-28-8	Ethyl 3-(ethylthio)butyrate
1923	4570	1003-10-7	2-Oxothiolane
1924	4581	112-55-0	Dodecanethiol
1925	4582	60-24-2	2-Hydroxyethanethiol
1926	4583	851768-52-0	4-Mercapto-4-methyl-2-hexanone
1927	4584	612071-27-9	3-Mercapto-3-methylbutyl isovalerate
1928	4392	888021-82-7	(+/-) Ethyl 3-mercapto-2-methylbutanoate
1929	4585	51755-72-7	3-Mercaptohexanal
1930	4575	2051-04-9	Diisoamyl disulfide
1931	4576	4032-80-8	Bis(2-methylphenyl) disulfide
1932	4577	72437-64-0	Mixture of butyl propyl disulfide and propyl and butyl disulfide
1933	4578	5943-30-6	di-sec-Butyl disulfide
1934	4580	955371-64-9	Diisoamyl trisulfide
1935	4579	35379-09-0	Methyl 2-methylphenyl disulfide
1936	4587	107-96-0	3-Mercaptopropionic acid
1937	4586	42075-42-3	Methyl isobutanethioate
1938	4588	50448-95-8	2-Ethylhexyl 3-mercaptopropionate
1939	4589	101780-73-8	Butanal dibenzyl thioacetal
1940	4590	16630-61-8	Methional diethyl acetal
1941	4436	906079-63-8	3-(Methylthio)propyl hexanoate
			Structural Class II
1942	4569	68697-67-6	1-(3-(Methylthio)-butyryl)-2,6,6-trimethylcyclohexene
1943	4499	59323-81-8	(+/-)-cis- and trans-2-Pentyl-4-propyl-1,3-oxathiane
1944	4526	1094004-39-3	2-Pentenyl-4-propyl-1,3-oxathiane (mixture of isomers)
ALIPHATIC PRIMARY ALCOHOLS, ALDEHYDES, CARBOXYLIC ACIDS, ACETALS, AND ESTERS CONTAINING ADDITIONAL OXYGENATED FUNCTIONAL GROUPS - previous group evaluation JECFA 53 – TRS 896⁽¹³⁾			
			Structural Class I
1945	4462	116-09-6	Hydroxyacetone
1946	4484	20279-43-0	Propyl pyruvate
1947	4450	1487-49-6	Methyl 3-hydroxybutyrate
1948	4482	6283-92-7	Dodecyl lactate
1949	4391	27372-03-8	(+/-) Ethyl 3-hydroxy-2-methylbutyrate

1950	4483	35274-05-6	Hexadecyl lactate
1951	4451	139564-42-4	Methyl 3-acetoxy-2-methylbutyrate
1952	4463	68113-55-3	1-Hydroxy-4-methyl-2-pentanone
1953	4452	1540-29-0	Ethyl 2-acetylhexanoate
1954	4461	4436-82-2	3-Isopropenyl-6-oxoheptanoic acid
1955	4453	7367-90-0	Ethyl 3-hydroxyoctanoate
1956	4454	35234-21-0	Methyl 3-acetoxyoctanoate
1957	4455	3637-14-7	5-Oxooctanoic acid
1958	4459	29214-60-6	Ethyl 2-acetyloctanoate
1959	4443	35234-25-4	Ethyl 5-acetoxyoctanoate
1960	4456	624-01-1	5-Oxodecanoic acid
1961	4457	93919-00-7	Ethyl 5-oxodecanoate
1962	4444	75587-06-3	Ethyl 5-hydroxydecanoate
1963	4458	3637-16-9	5-Oxododecanoic acid
1964	4472	627-93-0	Dimethyl adipate
1965	4473	106-19-4	Dipropyl adipate
1966	4474	6938-94-9	Diisopropyl adipate
1967	4475	141-04-8	Diisobutyl adipate
1968	4476	123-79-5	Dioctyl adipate
1969	4477	6413-10-1	Ethyl acetoacetate ethyleneglycol ketal
1970	4478	624-45-3	Methyl levulinate
1971	4480	645-67-0	Propyl levulinate
1972	4481	71172-75-3	Isoamyl levulinate
1973	4479	57197-36-1	Ethyl levulinate propyleneglycol ketal
1974	4489	84434-20-8	cis-3-Hexenyl acetoacetate
1975	4485	93804-64-9	Hydroxycitronellal propyleneglycol acetal
1976	4464	623-84-7	Propyleneglycol diacetate
1977	4442	85392-05-8 85392-06-9	6-(5(6)-Decenoyloxy)decanoic acid
1978	4465	10108-80-2	Propyleneglycol dipropionate
1979	4488	29592-95-8	Propyleneglycol monobutyrate
1980	4466	50980-84-2	Propyleneglycol dibutyrate
1981	4467	923593-56-0 923593-57-1	Propyleneglycol mono-2-methylbutyrate
1982	4468	155514-30-0	Propyleneglycol di-2-methylbutyrate
1983	4469	39556-41-7 170678-49-6	Propyleneglycol monohexanoate
1984	4470	50343-36-7	Propyleneglycol dihexanoate
1985	4471	7384-98-7	Propyleneglycol dioctanoate
1986	4460	923291-29-6	2-Oxo-3-ethyl-4-butanolide
1987	4610	75587-05-2	Ethyl 5-hydroxyoctanoate
1988	4611	172201-58-0	Isopropylidenglyceryl 5-hydroxydecanoate

ALIPHATIC LACTONES - previous group evaluation JECFA 49 – TRS 884⁽²⁵⁾			
			Structural class I
1989	4323	51352-68-2	5-Pentyl-3H-furan-2-one
1990	4141	10413-18-0	5-Hydroxy-4-methylhexanoic acid delta-lactone
1991	4145	28645-51-4	Isoambrettolide
1992	4439	67114-38-9	7-Decen-4-olide
1993	4440	74585-00-5	9-Decen-5-olide
1994	4441	32764-98-0	8-Decen-5-olide
1995	4449	134359-15-2	Orin Lactone
1996	4445	15456-68-5	9-Dodecen-5-olide
1997	4448	15456-70-9	9-Tetradecen-5-olide
1998	4446	502-26-1	gamma-Octadecalactone
1999	4447	1227-51-6	delta-Octadecalactone
			Structural class III
2000	4138	497-23-4	4-Hydroxy-2-butenoic acid gamma-lactone
2001	4188	21963-26-8	2-Nonenoic acid gamma-lactone
2002	4050	774-64-1	4-Hydroxy-2,3-dimethyl-2,4-nonadienoic acid gamma-lactone
ALIPHATIC AND AROMATIC AMINES AND AMIDES - previous group evaluation JECFA 65 – TRS 934⁽²⁷⁾			
			Structural Class I
2003	4500	67-48-1	Choline chloride (also includes choline)
2004	4649	4104-45-4	3-(Methylthio)propylamine
			Structural Class III
2005	4557	51115-70-9	N-Ethyl-2,2-diisopropylbutanamide
2006	4558	958660-02-1 958660-04-3	Cyclopropanecarboxylic acid (2-isopropyl-5-methyl-cyclohexyl)-amide
2007	4550	781674-18-8	(+/-)-N-Lactoyl tyramine
2008	4549	847565-09-7	N-(2-(Pyridin-2-yl)ethyl)-3-p-menthanecarboxamide
2009	4496	852379-28-3	N-p-Benzeneacetonitrile-menthanecarboxamide
2010	4602	883215-02-9	N-(2-hydroxyethyl)-2,3-dimethyl-2-isopropylbutanamide
2011	4603	51115-77-6	N-(1,1-dimethyl-2-hydroxyethyl)-2,2-diethylbutanamide
PHENOL AND PHENOL DERIVATIVES - previous group evaluation JECFA 55 – TRS 901⁽⁵⁾			
			Structural Class I
2012	4062	539-12-8	4-Propenylphenol
2013	4329	527-60-6	2,4,6-Trimethylphenol
2014	3812	24276-84-4	Sodium 3-methoxy-4-hydroxycinnamate
2015	4607	4112-92-9	Guaiacol butyrate
2016	4608	723759-62-4	Guaiacol isobutyrate
2017	4609	7598-60-9	Guaiacol propionate
2018	4548	64703-98-6	4-(2-Propenyl)phenyl-beta-D-glucopyranoside
2019	4621	4346-18-3	Phenyl butyrate
2020	4660	55-10-7	Hydroxy(4-hydroxy-3-methoxyphenyl)acetic acid
			Structural Class II

2021	4665	27113-22-0	1-(4-Hydroxy-3-methoxyphenyl)-decan-3-one
			Structural Class III
2022	4390	60-82-2	3-(4-Hydroxy-phenyl)-1-(2,4,6-trihydroxy-phenyl)-propan-1-one
2023	4559	528-43-8	Magnolol
2024	4313	69097-99-0	5,7-Dihydroxy-2-(3-hydroxy-4-methoxy-phenyl)-chroman-4-one
ALIPHATIC ACYCLIC AND ALICYCLIC TERPENOID TERTIARY ALCOHOLS AND STRUCTURALLY RELATED SUBSTANCES - previous group evaluation JECFA 51 – TRS 891⁽²⁸⁾			
			Structural Class I
2025	4403	93762-34-6	Dimethyl benzyl carbanyl crotonate
2026	4404	891781-90-1	Dimethylbenzyl carbanyl hexanoate
2027	4410	56747-96-7	Caryophyllene alcohol
2028	4497	23445-02-5	Cubebol
2029	4502	515-03-7	(-)-Sclareol
2030	4503	77-53-2	(+)-Cedrol
2031	4666	23089-26-1	alpha-Bisabolol
ALIPHATIC ACYCLIC AND ALICYCLIC ALPHA-DIKETONES AND RELATED ALPHA-HYDROXYKETONES - previous group evaluation JECFA 51 – TRS 891⁽²⁸⁾			
			Structural class I
2032	4057	113486-29-6	3-Methyl-2,4-nonedione
			Structural class II
2033	4532	94089-23-3	Acetoin propyleneglycol ketal
2034	3989	163038-04-8	3-Hydroxy-5-methyl-2-hexanone or 2-Hydroxy-5-methyl-2-hexanone
2035	4139	37160-77-3	3-Hydroxy-2-octanone
2036	4060	585-25-1	Octan-2,3-dione
2037	4533	5455-24-3	4,5-Octanedione
2038	4143	490-03-9	(+/-) 2-Hydroxypiperitone
2039	4303	18114-49-3	1,1'-(Tetrahydro-6a-hydroxy-2,3a,5-trimethylfuro[2,3-d]-1,3-dioxole-2,5-diyl)bis-ethanone
AROMATIC SUBSTITUTED SECONDARY ALCOHOLS, KETONES, AND RELATED ESTERS - previous group evaluation JECFA 57 – TRS 909⁽²⁹⁾			
			Structural Class I
2040	4330	99-93-4	4-Hydroxyacetophenone
2041	4052	5355-63-5	3-Hydroxy-4-phenylbutan-2-one
2042	4163	579-74-8	2-Methoxyacetophenone
2043	3906	551-93-9	2-Aminoacetophenone
2044	4316	577-16-2	2-Methylacetophenone
2045	4594	1450-72-2	2-Hydroxy-5-methylacetophenone
2046	4555	129319-15-9	Dihydrogalangal acetate
2047	4556	54440-17-4	2,3,3-Trimethylindanone
			Structural Class I
2048	2701	55418-52-5	4-(3,4-Methylenedioxyphenyl)-2-butanone
ALICYCLIC KETONES, SECONDARY ALCOHOLS AND RELATED ESTERS - previous group evaluation JECFA 59 – TRS 913⁽²⁶⁾			
			Structural Class I
2049	4284	51608-18-5	2-(trans-2-Pentenyl)cyclopentanone

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2050	4514	4884-24-6	2-Cyclopentylcyclopentanone
2051	4516	1670-47-9	Cyclohexanone diethyl ketal
2052	4517	930-68-7	2-Cyclohexenone
2053	4512	67859-96-5	3,3,5-Trimethylcyclohexyl acetate
2054	4531	7500-42-7	2,6,6-Trimethyl-2-hydroxycyclohexanone
			Structural Class II
2055	4511	87-55-8	Cyclotene propionate
2056	4648	68227-51-0	Cyclotene butyrate
2057	4663	13215-88-8	4-(2-Butenylidene)-3,5,5-trimethylcyclohex-2-en-1-one
2058	4661	24427-77-8	4-Hydroxy-4-(3-hydroxy-1-butenyl)-3,5,5-trimethyl-2-cyclohexen-1-one
			Structural Class III
2059	4518	85248-56-2	8,9-Dehydrotheaspirone
2060	4662	80722-28-7	(+/-) 2,6,10,10-Tetramethyl-1-oxaspiro[4.5]deca-2,6-dien-8-one
BENZYL DERIVATIVES - previous group evaluation JECFA 57 – TRS 909⁽²⁹⁾			
			Structural class I
2061	4026	6938-45-0	Benzyl hexanoate
2062	4077	135-02-4	o-Anisaldehyde
2063	4203	5205-11-8	Prenyl benzoate
2064	4623	6939-75-9	Benzyl levulinate
2065	4624	589-18-4	4-Methylbenzyl alcohol
2066	4626	6471-66-5	Benzyl nonanoate
2067	4628	58244-29-4	4-Methylbenzaldehyde propyleneglycol acetal
			Structural class II
2068	4630	5444-75-7	2-Ethylhexyl benzoate
2069	4194	26643-92-5	(+/-) 2-Phenyl-4-methyl-2-hexenal
SATURATED ALIPHATIC ACYCLIC SECONDARY ALCOHOLS, KETONES, AND RELATED SATURATED AND UNSATURATED ESTERS - previous group evaluation JECFA 51⁽²⁸⁾			
			Structural class I
2070	4009	84434-65-1	(+/-) Octan-3-yl formate
2071	4492	3687-48-7	(R)-(-)-1-Octen-3-ol
2072	4401	90397-36-7	2-Pentyl 2-methylpentanoate
2073	4402	20286-45-7	3-Octyl butyrate
			Structural class II
2074	4271	693-54-9	2-Decanone
2075	4400	68258-95-7	6-Methyl-5-hepten-2-one propyleneglycol acetal
2076	4399	165191-91-3	2-Nonanone propyleneglycol acetal

2. Food additives recommended for re-evaluation and/or review at previous meetings of the Joint FAO/WHO Expert Committee on Food Additives – revision of specifications

Food additive	Reference	Information required
Activated carbon	Thirty-seventh report of JECFA ⁽³⁰⁾ , FAO Food and Nutrition Paper 38 ⁽³¹⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 1 ⁽³²⁾	Data necessary for revision of test for alcohol soluble substances.
Annatto extract (oil-processed bixin)	Sixty-seventh report of JECFA ⁽³³⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 4 ⁽²⁴⁾	Information is required on chemical characterisation of the non-colouring matter components of commercial products. The tentative specifications will be withdrawn unless the information is received.
β -carotene (synthetic)	Fifty-seventh report of JECFA ⁽²⁹⁾ , Eighteenth report of JECFA ⁽³⁴⁾ , Compendium of Food Additive Specifications FAO JECFA Monographs 1 ⁽³²⁾	Data necessary for revision of purity test for carotenoids other than β -carotene.
β -apo-8'-carotenal	Eighteenth report of JECFA ⁽³⁴⁾ , Combined Compendium of Food Additive Specifications FAO JECFA Monographs 1 ⁽³²⁾	Data necessary for revision of purity tests for subsidiary colouring matter.
β -apo-8'-carotenoic acid ethyl ester	Eighteenth report of JECFA ⁽³⁴⁾ , Combined Compendium of Food Additive Specifications FAO JECFA Monographs 1 ⁽³²⁾	Data necessary for revision of purity tests for subsidiary colouring matter.
Indigotine	Eighteenth report of JECFA ⁽³⁴⁾ , Combined Compendium of Food Additive Specifications FAO JECFA Monographs 1 ⁽³²⁾	Data necessary for revision of specifications, in particular the method of assay.
4-carvomenthenol JECFA No. 439	Fifty-fifth report of JECFA ⁽⁵⁾ , FAO Food and nutrition Paper 52, Add. 8 ⁽³⁵⁾ , Fifty-first report of JECFA ⁽³²⁾ .	Data necessary for revision of specifications.
5,6,7,8-tetrahydroquinoxaline JECFA No. 952	Fifty-seventh report of JECFA ⁽²⁹⁾ , FAO Food and nutrition Paper 52, Add. 9 ⁽³⁶⁾ .	Data necessary for revision of specifications.

References

1. Evaluation of certain food contaminants (Sixty-fourth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 930, 2006.
2. Safety evaluation of certain contaminants, WHO Food Additive Series No. 55 and FAO Food and Nutrition Paper 82, 2006.
3. Evaluation of certain food additives and contaminants (Sixty-first report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 922, 2004.
4. Safety evaluation of certain food additives and contaminants, WHO Food Additive Series No. 52, 2004.
5. Evaluation of certain food additives and contaminants (Fifty-fifth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 901, 2001.
6. Safety evaluation of certain food additives and contaminants, WHO Food Additive Series No. 46, 2001.
7. Evaluation of certain food additives and contaminants (Forty-first report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 837, 1993.
8. Evaluation of certain food additives and contaminants (Thirty-third report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 776, 1989.
9. Toxicological evaluation of certain food additives and contaminants, WHO Food Additive Series No. 24, 1989.
10. Evaluation of certain food additives and the contaminants mercury, lead and cadmium (Sixteenth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 505, 1972.
11. Cadmium in food - Scientific opinion of the Panel on Contaminants in the Food Chain. European Food Safety Authority. The EFSA Journal 980, 1-139, 2009.
http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_1211902396126.htm
12. Meta-analysis of Dose-Effect Relationship of Cadmium for Benchmark Dose Evaluation. European Food Safety Authority. EFSA Scientific Report 254, p. 1-62, 2009.
http://www.efsa.europa.eu/cs/BlobServer/Report/amu_report_bmd_metaanalysis_en.pdf?ssbinary=true.
13. Evaluation of certain food additives and contaminants (Fifty-third report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 896, 2000.
14. Safety evaluation of certain food additives and contaminants, WHO Food Additive Series No. 44, 2000.
15. Evaluation of certain food additives and contaminants (Thirtieth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 751, 1987.
16. Toxicological evaluation of certain food additives and contaminants, WHO Food Additive Series No. 21, 1987.
17. Evaluation of certain food additives and contaminants (Twenty-second report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 631, 1978.
18. Summary of toxicological data of certain food additives and contaminants, WHO Food Additive Series No. 13, 1978.
19. Evaluation of mercury, lead, cadmium and the food additives amaranth, diethylpyrocarbonate and octylgallate, WHO Food Additive Series No. 4, 1972.
20. Specifications for the identity and purity of food additives and their toxicological evaluation: Some emulsifiers and stabilizers and certain other substances ((Tenth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 373 and FAO Nutrition Meetings Report Series 43, 1967.
21. Evaluation of certain food additives (Sixty-ninth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 952, 2009.
22. Compendium of food additive specifications (Sixty-ninth Joint FAO/WHO Expert Committee on Food Additives). FAO JECFA Monographs 5, 2008.
23. Evaluation of certain food additives and contaminants (Sixty-eighth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 947, 2007.

24. Compendium of food additive specifications (Sixty-eighth Joint FAO/WHO Expert Committee on Food Additives). FAO JECFA Monographs 4, 2007.
25. Evaluation of certain food additives and contaminants (Forty-ninth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 884, 1999.
26. Evaluation of certain food additives (Fifty-ninth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 913, 2002.
27. Evaluation of certain food additives (Sixty-fifth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 934, 2006.
28. Evaluation of certain food additives (Fifty-first report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 891, 2000.
29. Evaluation of certain food additives and contaminants (Fifty-seventh report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 909, 2002.
30. Evaluation of certain food additives and contaminants (Thirty-seventh report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 806, 1991.
31. Specifications for identity and purity of certain food additives (Thirty-first Joint FAO/WHO Expert Committee on Food Additives). FAO Food and Nutrition Paper 38, 1988.
32. Combined Compendium of Food Additive Specifications, FAO JECFA Monographs 1, 2005, 2006.
33. Evaluation of certain food additives and contaminants (Sixty-seventh report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 940, 2007.
34. Evaluation of certain food additives (Eighteenth report of the Joint FAO/WHO Expert Committee on Food Additives). WHO Technical Report Series, No. 557 and FAO Nutrition Meetings Report Series 54, 1974.
35. Compendium of food additive specifications, addendum 8, FAO Food and Nutrition Paper No.52, Add 8, 2000.
36. Compendium of food additive specifications, addendum 9 FAO Food and Nutrition Paper No.52, Add 9, 2001.

Annex 2

JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES

BACKGROUND

The Joint FAO/WHO Expert Committee on Food Additives (JECFA) was established in the mid-1950s by the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO) to assess chemical additives in food on an international basis. The first meeting was held in 1956 in response to recommendations made at an FAO/WHO Conference on Food Additives that met in Geneva in 1955.

In the early 1960s the Codex Alimentarius Commission (CAC), which is an international inter-governmental body, was established. The primary aims of the CAC are to protect the health of the consumer and facilitate international trade in food. At the time that the CAC was formed it was decided that JECFA would provide expert advice to Codex on matters relating to food additives. A system was established whereby the Codex Committee on Food Additives, a general subject committee, identified food additives that should receive priority attention, which were then referred to JECFA for assessment before being considered for inclusion in Codex Food Standards.

This system is still in place, but it has been expanded to include food contaminants and residues of veterinary drugs in food to provide advice to the presently-existing Codex Committee on Food Additives (CCFA), Codex Committee on Contaminants in Food (CCCF) and Codex Committee on Residues of Veterinary Drugs in Foods (CCRVDF). JECFA also provides scientific advice directly to FAO and WHO Member States, and requests for assessment may come directly from them. JECFA is not a component of the CAC.

Specialists invited to serve as Members of JECFA are independent scientists who serve in their individual capacities as experts, and not as representatives of their governments or employers. The goal is to establish safe levels of intake and to develop specifications for identity and purity (food additives) or maximum residue limits when veterinary drugs are used in accordance with good practice in the use of veterinary drugs.

Through 2009, a total of seventy-one meetings of JECFA have been held. The reports are published in the WHO Technical Report Series. The toxicological evaluations, that summarize the data that serve as the basis for the safety assessments, are published in the WHO Food Additives Series. The specifications and veterinary drug residue evaluations are published in the FAO JECFA Monographs. The Combined Compendium of Food Additive Specifications of all current JECFA specifications is available on-line <http://www.fao.org/ag/agn/jecfa-additives/search.html?lang=en> . The newly updated data base on specifications for flavouring agents is available at <http://www.fao.org/ag/agn/jecfa-flav/search.html> .

A *Summary of Evaluations* performed by the Joint FAO/WHO Expert Committee on Food Additives, a comprehensive document that summarizes all JECFA evaluations from the first through recent meetings, is available free of charge on the Internet in a searchable format at <http://www.who.int/ipcs/food/jecfa/en/index.html> , or http://www.fao.org/ag/agn/jecfa/archive_en.stm .