



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



**World Health
Organization**

**JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES
One hundred and first meeting**

**Food Contaminants
Geneva, October 2025
Published on 12 February 2024**

**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 one hundred and first meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA) (see Annex 2 for more information about JECFA). This list has been prepared by the Joint FAO/WHO Secretariat of the Committee and is based on recommendations of Codex Committee on Contaminants in Foods (CCCF), previous Expert Committees, and direct requests from governments, or other interested organizations.

Submission of data

Governments, interested organizations and individuals are invited to submit data for the toxicological evaluation and for estimating the exposure to the contaminants that are listed in annex 1.

The submitted data may be published or unpublished and should contain detailed reports of laboratory studies, including individual animal data, epidemiological evidence of human exposures and associated health endpoints, or examination of the occurrence of chemicals in the food system. 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Unpublished confidential studies that are submitted will be safeguarded and will be used only for evaluation purposes by JECFA.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 JECFA monographs.

The secretariats of JECFA at FAO and WHO kindly request submission of data in electronic format. Such data should be presented preferably using standard word processing or document formats, and need to include a "Table of contents" using fully descriptive file names. For large volume submissions or for any questions related to data submissions please contact the Secretariat.

Submissions of recent regulatory reviews or comprehensive literature reviews with supporting publications are also encouraged.

Date for submission

The submission of data on the contaminants listed in Annex 1 is requested before

1st December 2024

This deadline applies to all data.

Toxicological data for contaminants (Annex 1)

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

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 (including interactions among related contaminants, in particular as mentioned in annex 1), immune responses, or macromolecular binding

should be sent to:

Attention: Kim Petersen
Department of Nutrition and Food Safety
World Health Organization
Avenue Appia
1211 Geneva 27, Switzerland
Telephone: +41 (0)22 791 1439
E-mail: jecfa@who.int

Additional copies of the data might be needed and the JECFA Secretariat will inform the data provider on where to send additional copies in due course.

Occurrence data for contaminants (Annex 1)

Data relevant to the occurrence, and quantification of contaminants listed in annex 1 including:

1. levels and patterns of occurrence (and in some cases co-occurrence, see annex 1) of the listed contaminants in raw commodities and finished food products
2. levels of the listed contaminants in animal feed
3. information on carry-over of contaminants from feed to animals for human consumption
4. effects of processing on levels of contaminants in food as consumed and in feed
5. analytical techniques used by investigators or authorities for identifying and quantifying the listed contaminants in foodstuffs and/or human and animal tissues;
6. sampling protocols for the listed contaminants
7. methods available for the prevention and control of the listed contaminants

should be sent to:

Attention: Dr Markus Lipp
Agrifood Systems and Food Safety Division
Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla
00153 Rome, Italy
Telephone: +39 06 5705 3283
E-mail: jecfa@fao.org

Additional copies of the data might be needed and the JECFA Secretariat will inform the data provider on where to send additional copies in due course.

Please note

Data on occurrence of the listed contaminants in food should be submitted to the GEMS/Food on-line database (<https://extranet.who.int/gemsfood/?DisplayFormat=1/>).

For more information, please refer to the GEMS/Food Electronic Submission of Data on Chemicals in Food and the Diet at the WHO Website – https://cdn.who.int/media/docs/default-source/food-safety/gems-food/gems-instructions-for-electronic-submission-of-data.pdf?sfvrsn=c79dd32c_7

Intake assessment data

All data relevant to:

1. levels and patterns of human exposure from all relevant sources of the listed contaminants;
2. food consumption patterns; also considering different (age-)population groups
3. biomarkers of exposure

should be sent to FAO at the address above (jecfa@fao.org) and to WHO at 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 those 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.

Procedures for the evaluation of chemicals in food were updated and published by FAO and WHO (*Principles and Methods for the Risk Assessment of Chemicals in Food* – Environmental Health Criteria No. 240, available at <https://www.who.int/publications/i/item/9789241572408>

Specific procedural guidelines for contaminants in food are also available from FAO and WHO (see <https://www.fao.org/food-safety/scientific-advice/jecfa/jecfa-guidelines/en/> and [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/procedural-guidance](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/procedural-guidance)).

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:

- <https://www.fao.org/food-safety/scientific-advice/calls-for-data-and-experts-expert-rosters/en/>
- [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/calls-for-data](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/calls-for-data)

Annex 1**Joint FAO/WHO Expert Committee on Food Additives (JECFA)
One hundred and first meeting, October 2025, Geneva****List of substances scheduled for evaluation or re-evaluation**

General information: Links to the 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 in food and intake are available at <https://www.fao.org/food-safety/scientific-advice/jecfa/en/> and [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)).

Contaminant	Question(s) to be answered, reference, and background	Information required
Dioxins and dioxin-like PCBs	<p>Full evaluation (toxicological assessment and exposure assessment) to update 2001 JECFA assessment and incorporate data on developmental effects from in utero exposures.</p> <p>Report of 57th JECFA Meeting ²</p> <p>Report of the 16th Session of the Codex Committee on Contaminants in Food (REP23/CF16-Appendix VII) ¹</p> <p>The 2022 WHO re-evaluation of human and mammalian toxic equivalency factors for polychlorinated dioxins, dibenzofurans and biphenyls³ (referred to as the 2022 WHO TEF values)</p>	<p>All information related to toxicology, occurrence and intake assessment (as detailed in pages 2-3 of this call).</p> <p>The data on polychlorinated dioxins, dibenzofurans and biphenyls should be submitted using the 2022 WHO TEF values when calculating the toxic equivalency (TEQ) values³ (the WHO TEF values are listed in Annex 3). If the 2022 WHO TEF values are not used to calculate the TEQs, the data on all congeners have to be submitted.</p>
Arsenic (inorganic and organic)	<p>Full evaluation (toxicological assessment and exposure assessment)</p> <p>Report of 72nd JECFA Meeting ⁴</p> <p>Report of the 16th Session of the Codex Committee on Contaminants in Food (REP23/CF16-Appendix VII) ¹</p>	<p>All information related to toxicology, occurrence and intake assessment (as detailed in pages 2-3 of this call).</p>

References^a

1. Report of the 16th Session of the Codex Committee on Contaminants in Food (REP23/CF16-Appendix VII) <https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252>

^a Previous JECFA reports and monographs should be consulted to obtain background information on the previous evaluations.

[FMeetings%252FCX-735-16%252FREPORT%252FFINAL%252520REPORT%252FREPP23_CF16e.pdf](#)

2. Report of 57th JECFA Meeting [TRS 909-JECFA 57/121](#)
https://iris.who.int/bitstream/handle/10665/42578/WHO_TRS_909.pdf?sequence=1
3. The 2022 WHO re-evaluation of human and mammalian toxic equivalency factors for polychlorinated dioxins, dibenzofurans and biphenyls
<https://www.sciencedirect.com/science/article/pii/S0273230023001939>
4. Report of 72nd JECFA Meeting [TRS 959-JECFA 72](#)
https://iris.who.int/bitstream/handle/10665/44514/WHO_TRS_959_eng.pdf?sequence=1

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 intergovernmental 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.

The reports of previous JECFA meetings are published in the WHO Technical Report Series ([https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/reports](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/reports)). The toxicological evaluations that summarize the data that serve as the basis for the safety assessments, are published in the WHO Food Additives Series ([https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/toxicological-monographs](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/toxicological-monographs)).

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 <https://www.fao.org/food-safety/resources/publications/en/>. The updated database on specifications for flavouring agents is available at <https://www.fao.org/food-safety/resources/tools/en/>. The Chemical Technical Assessments are available at <https://www.fao.org/food-safety/resources/publications/en/>.

A *Summary of Evaluations* performed by the Joint FAO/WHO Expert Committee on Food Additives, a comprehensive searchable database that summarizes all JECFA evaluations from the first through recent meetings, is available at [https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-\(jecfa\)/publications/summary-reports](https://www.who.int/groups/joint-fao-who-expert-committee-on-food-additives-(jecfa)/publications/summary-reports)

Annex 3

2022 WHO-TEFs³ for dioxin-like compounds and comparison with 2005 WHO-TEFs

DL Congener	2005 WHO-TEFs	2022 WHO-TEFs
Dioxins		
1,2,3,7,8-PeCDD	1	0.4
1,2,3,4,7,8-HxCDD	0.1	0.09
1,2,3,6,7,8-HxCDD	0.1	0.07
1,2,3,7,8,9-HxCDD	0.1	0.05
1,2,3,4,6,7,8-HpCDD	0.01	0.05
OCDD	0.0003	0.001
Furans		
TCDF	0.1	0.07
1,2,3,7,8-PeCDF	0.03	0.01
2,3,4,7,8-PeCDF	0.3	0.1
1,2,3,4,7,8-HxCDF	0.1	0.3
1,2,3,6,7,8-HxCDF	0.1	0.09
1,2,3,7,8,9-HxCDF	0.1	0.2
2,3,4,6,7,8-HxCDF	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.02
1,2,3,4,7,8,9-HpCDF	0.01	0.1
OCDF	0.0003	0.002
PCBs		
PCB77	0.0001	0.0003
PCB81	0.0003	0.006
PCB126	0.1	0.05
PCB169	0.03	0.005
MONO-ORTHO PCBs		
PCB105	0.00003	0.00003
PCB114	0.00003	0.00003
PCB118	0.00003	0.00003
PCB123	0.00003	0.00003

PCB156	0.00003	0.00003
PCB157	0.00003	0.00003
PCB167	0.00003	0.00003
PCB189	0.00003	0.00003