

List of Designated Food Additives

The substances below are the designated food additives appearing in Appended Table 1, as mentioned in Article 12 of the Enforcement Regulations under the Food Sanitation Law. These additives are listed here in alphabetical order. They are 475 in total as of July 26, 2023. The number preceding the name of each additive is the sequence number given to the corresponding additive in the original Japanese table. The names of the substances are translated by the Foundation from the Japanese original.

16	Acesulfame Potassium (Acesulfame K)
20	Acetaldehyde
334	Glacial Acetic Acid
23	Acetone
22	Acetophenone
17	Acetylated Distarch Adipate
19	Acetylated Distarch Phosphate
18	Acetylated Oxidized Starch
5	Adipic Acid
26	Advantame
32	DL-Alanine
196	Aliphatic Higher Alcohols
197	Aliphatic Higher Aldehydes (except those generally recognized as highly toxic)
198	Aliphatic Higher Hydrocarbons (except those generally recognized as highly toxic)
183	Allyl Cyclohexylpropionate
380	Allyl Hexanoate (Allyl Caproate)
55	Allyl Isothiocyanate (Volatile Oil of Mustard)
449	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Dried: Burnt Ammonium Alum)
450	Aluminum Potassium Sulfate (Crystal: Alum or Potassium Alum, Dried: Burnt Alum)
29	(3-Amino-3-carboxypropyl)dimethylsulfonium Chloride
45	Ammonia
36	Ammonium Alginate
249	Ammonium Bicarbonate (Ammonium Hydrogen Carbonate)
246	Ammonium Carbonate
85	Ammonium Chloride
466	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic)
33	Ammonium Hydrogen Sulfite Water
46	Ammonium Isovalerate
102	Ammonium Persulfate
451	Ammonium Sulfate
30	Amyl alcohol
31	α -Amylcinnamaldehyde (α -Amylcinnamic Aldehyde)
27	Anisaldehyde (<i>p</i> -Methoxybenzaldehyde)
28	β -Apo-8'-carotenal
35	L-Arginine L-Glutamate
41	Argon
391	Aromatic Alcohols
392	Aromatic Aldehydes (except those generally recognized as highly toxic)
7	L-Ascorbic Acid (Vitamin C)

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9	L-Ascorbic Acid 2-Glucoside
12	L-Ascorbic Palmitate (Vitamin C Palmitate)
10	L-Ascorbic Stearate (Vitamin C Stearate)
13	Asparaginase
15	Aspartame (L- α -Aspartyl-L-phenylalanine Methyl Ester)
25	Azoxystrobin
386	Benzaldehyde
42	Benzoic Acid
100	Benzoyl Peroxide
166	Benzyl Acetate
385	Benzyl Alcohol
374	Benzyl Propionate
317	Biotin
319	Bisbentiamine (Benzoylthiamine Disulfide)
405	<i>d</i> -Borneol
358	Butanol
165	Butyl Acetate
359	Butylamine
360	<i>sec</i> -Butylamine
437	Butyl Butyrate
310	Butyl <i>p</i> -Hydroxybenzoate
362	Butylated Hydroxyanisole
192	Butylated Hydroxytoluene
361	Butyraldehyde
433	Butyric Acid
155	Calcium Acetate
38	Calcium Alginate
8	Calcium L-Ascorbate
248	Calcium Carbonate
103	Calcium Carboxymethylcellulose (Calcium Cellulose Glycolate)
87	Calcium Chloride
117	Calcium Citrate
470	Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)
342	Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)
79	Calcium Disodium Ethylenediaminetetraacetate (Calcium Disodium EDTA)
130	Calcium Gluconate
125	Calcium Glycerophosphate
233	Calcium Hydroxide (Slaked Lime)
299	Calcium Lactate

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469	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
173	Calcium Oxide
315	Calcium Pantothenate
347	Calcium Phytate
372	Calcium Propionate
443	Calcium 5'-Ribonucleotide
170	Calcium Saccharin
140	Calcium Silicate
245	Calcium Sorbate
237	Calcium Stearate
239	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
453	Calcium Sulfate
209	Calcium L-Tartrate (Calcium <i>d</i> -Tartrate)
106	Canthaxanthin
294	Carbon Dioxide (Carbonic Acid Gas)
105	β -Carotene
111	Chitin-Glucan
292	Chlorine Dioxide
2	Chlorous Acid Water
151	Cholecalciferol (Vitamin D ₃)
189	1,8-Cineole (Eucalyptol)
231	Cinnamaldehyde (Cinnamic Aldehyde)
142	Cinnamic Acid
159	Cinnamyl Acetate
230	Cinnamyl Alcohol (Cinnamic Alcohols)
186	Citral
113	Citric Acid
187	Citronellal
188	Citronellol
158	Citronellyl Acetate
109	Citronellyl Formate
329	Copolymer of Vinylimidazole/Vinylpyrrolidone (PVI/PVP)
276	Copper Chlorophyll
274	Copper salts (limited to Copper Gluconate and Cupric Sulfate)
157	Cyclohexyl Acetate
436	Cyclohexyl Butyrate
184	L-Cystein Monohydrochloride
264	Decanal (Decyl Aldehyde)
265	Decanol (Decyl Alcohol)

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465	Diammonium Hydrogen Phosphate (Ammonium Phosphate, Dibasic)
193	Dibenzoyl Thiamine
194	Dibenzoyl Thiamine Hydrochloride
182	2,3-Diethyl-5-methylpyrazine
181	2,3-Diethylpyrazine
191	Difenoconazole
296	Dimethyl Dicarbonate
199	2,3-Dimethylpyrazine
200	2,5-Dimethylpyrazine
201	2,6-Dimethylpyrazine
202	2,6-Dimethylpyridine
190	Diphenyl (Biphenyl)
207	Dipotassium DL-Tartrate (Dipotassium <i>d</i> l-Tartrate)
467	Dipotassium Hydrogen Phosphate (Potassium Phosphate, Dibasic)
208	Dipotassium L-Tartrate (Dipotassium <i>d</i> l-Tartrate)
185	Disodium 5'-Cytidylate (Sodium 5'-Cytidylate)
343	Disodium Dihydrogen Pyrophosphate (Acid Disodium Pyrophosphate)
80	Disodium Ethylenediaminetetraacetate (Disodium EDTA)
126	Disodium Glycyrrhizinate
112	Disodium 5'-Guanylate (Sodium 5'-Guanylate)
471	Disodium Hydrogen Phosphate (Disodium Phosphate)
64	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
444	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
150	Disodium Succinate
212	Disodium DL-Tartrate (Disodium <i>d</i> l-Tartrate)
213	Disodium L-Tartrate (Disodium <i>d</i> l-Tartrate)
67	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
460	Distarch Phosphate
84	Ergocalciferol (Calciferol or Vitamin D ₂)
82	Erythorbic Acid (Isoascorbic Acid)
69	Ester Gum
70	Esters
81	Ethers
154	Ethyl Acetate
21	Ethyl Acetoacetate
435	Ethyl Butyrate
143	Ethyl Cinnamate
266	Ethyl Decanoate (Ethyl Caprate)
71	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine

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383	Ethyl Heptanoate (Ethyl Enanthate)
381	Ethyl Hexanoate (Ethyl Caproate)
309	Ethyl <i>p</i> -Hydroxybenzoate
52	Ethyl Isovalerate
75	2-Ethyl-3-methylpyrazine
76	2-Ethyl-5-methylpyrazine
77	2-Ethyl-6-methylpyrazine
78	5-Ethyl-2-methylpyridine
94	Ethyl Octanoate (Ethyl Caprylate)
351	Ethyl Phenylacetate
371	Ethyl Propionate
73	2-Ethylpyrazine
74	3-Ethylpyridine
72	Ethylvanillin
91	Eugenol
195	Fatty Acids
120	Ferric Ammonium Citrate
88	Ferric Chloride
119	Ferric Citrate
344	Ferric Pyrophosphate
356	Ferrocyanides (limited to Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), and Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
131	Ferrous Gluconate (Iron Gluconate)
454	Ferrous Sulfate
365	Fludioxonil
432	Folic Acid
226	Food Blue No.1 (Brilliant Blue FCF) and its Aluminum Lake
227	Food Blue No.2 (Indigo Carmine) and its Aluminum Lake
225	Food Green No.3 (Fast Green FCF) and its Aluminum Lake
216	Food Red No.2 (Amaranth) and its Aluminum Lake
217	Food Red No.3 (Erythrosine) and its Aluminum Lake
218	Food Red No.40 (Allura Red AC) and its Aluminum Lake
219	Food Red No.102 (New Coccine)
220	Food Red No.104 (Phloxine)
221	Food Red No.105 (Rose Bengal)
222	Food Red No.106 (Acid Red)
223	Food Yellow No.4 (Tartrazine) and its Aluminum Lake
224	Food Yellow No.5 (Sunset Yellow FCF) and its Aluminum Lake
363	Fumaric Acid

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366	Furfurals and its derivatives (except those generally recognized as highly toxic)
146	Geraniol
156	Geranyl Acetate
108	Geranyl Formate
128	Gluconic Acid
127	Glucono- δ -Lactone (Gluconolactone)
134	L-Glutamic Acid
133	Glutamyl-valyl-glycine
123	Glycerol (Glycerin)
124	Glycerol Esters of Fatty Acids
122	Glycine
379	Hexanoic Acid (Caproic Acid)
382	Hexylamine
147	High-Test Hypochlorite
318	L-Histidine Monohydrochloride
179	Hypobromous Acid Water
90	Hydrochloric Acid
99	Hydrogen Peroxide
323	Hydroxycitronellal
324	Hydroxycitronellal Dimethylacetal
322	1-Hydroxyethylidene-1,1-Diphosphonic Acid
326	Hydroxypropyl Cellulose
325	Hydroxypropyl Distarch Phosphate
328	Hydroxypropyl Methylcellulose
327	Hydroxypropyl Starch
177	Hypochlorous Acid Water
65	Imazalil
66	Indoles and its derivatives
48	Ion Exchange Resin
47	Ionone
300	Iron Lactate
176	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
153	Isoamyl Acetate
49	Isoamyl Alcohol
434	Isoamyl Butyrate
107	Isoamyl Formate
51	Isoamyl Isovalerate
349	Isoamyl Phenylacetate
370	Isoamyl Propionate

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57	Isobutanol
59	Isobutylaldehyde (Isobutanal)
58	Isobutylamine
307	Isobutyl <i>p</i> -Hydroxybenzoate
350	Isobutyl Phenylacetate
50	Isoeugenol
63	L-Isoleucine
62	Isopentylamine
60	Isopropanol
61	Isopropylamine
114	Isopropyl Citrate
308	Isopropyl <i>p</i> -Hydroxybenzoate
53	Isoquinoline
54	Isothiocyanates (except those generally recognized as highly toxic)
56	Isovaleraldehyde
145	Ketones
297	Lactic Acid
438	Lactones (except those generally recognized as highly toxic)
442	Linalool
168	Linalyl Acetate
439	L-Lysine L-Aspartate
441	L-Lysine L-Glutamate
440	L-Lysine Monohydrochloride
253	Magnesium Carbonate
89	Magnesium Chloride
235	Magnesium Hydroxide
473	Magnesium Monohydrogen Phosphate
175	Magnesium Oxide
141	Magnesium Silicate
238	Magnesium Stearate
456	Magnesium Sulfate
457	DL-Malic Acid (<i>d</i> / <i>l</i> -Malic Acid)
406	Maltol
407	D-Mannitol (D-Mannite)
429	<i>d</i> / <i>l</i> -Menthol (<i>d</i> / <i>l</i> -Peppermint Camphor)
430	<i>l</i> -Menthol (Peppermint Camphor)
167	<i>l</i> -Menthyl Acetate
408	Metatartaric Acid
411	DL-Methionine

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412	L-Methionine
312	<i>p</i> -Methylacetophenone
44	Methyl Anthranilate
421	2-Methylbutanol
422	3-Methyl-2-butanol
425	<i>trans</i> -2-Methyl-2-butenal
426	3-Methyl-2-butenal
427	3-Methyl-2-butenol
424	2-Methylbutyraldehyde
423	2-Methylbutylamine
417	Methyl Cellulose
144	Methyl Cinnamate
416	5-Methyl-6,7-dihydro-5 <i>H</i> -cyclopentapyrazine
428	Methyl Hesperidin (Soluble Vitamin P)
418	1-Methylnaphthalene
413	Methyl N-Methylantranilate
419	Methyl β -Naphthyl Ketone
420	2-Methypyrazine
415	6-Methylquinoline
414	5-Methylquinoxaline
172	Methyl Salicylate
135	Monoammonium L-Glutamate
137	Monocalcium Di-L-Glutamate
139	Monomagnesium Di-L-Glutamate
116	Monopotassium Citrate and Tripotassium Citrate
136	Monopotassium L-Glutamate
14	Monosodium L-Aspartate
364	Monosodium Fumarate (Sodium Fumarate)
138	Monosodium L-Glutamate
149	Monosodium Succinate
461	Monostarch Phosphate
431	Morpholine Salts of Fatty Acids
287	Natamycin (Pimaricin)
302	Neotame
290	Nicotinamide (Niacinamide)
289	Nicotinic Acid (Niacin)
286	Nisin
4	Nitrous Oxide
303	γ -Nonalactone (Nonalactone)

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92	Octanal (Caprylic Aldehyde or Octyl Aldehyde)
93	Octanoic Acid
203	Oxalic Acid
174	Oxidized Starch
387	2-Pentanol (<i>sec</i> -Amyl Alcohol)
389	<i>trans</i> -2-Pentenal
390	1-Penten-3-ol
388	Pentylamine
98	Peracetic Acid
384	<i>l</i> -Perillaldehyde
164	Phenethyl Acetate (Phenylethyl Acetate)
353	Phenethylamine
354	Phenol Ethers (except those generally recognized as highly toxic)
355	Phenols (except those generally recognized as highly toxic)
348	L-Phenylalanine
96	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
352	2-(3-Phenylpropyl)pyridine
475	Phosphated Distarch Phosphate
459	Phosphoric Acid
330	Piperidine
331	Piperonal (Heliotropine)
332	Piperonyl Butoxide
402	Polybutene (Polybutylene)
395	Polyisobutylene (Butyl Rubber)
396	Polysorbate 20
397	Polysorbate 60
398	Polysorbate 65
399	Polysorbate 80
163	Polyvinyl Acetate
401	Polyvinylpyrrolidone
400	Polyvinylpyrrolidone
37	Potassium Alginate
210	Potassium DL-Bitartrate (Potassium Hydrogen <i>d</i> l-Tartrate or Potassium Hydrogen DL-Tartrate)
211	Potassium L-Bitartrate (Potassium Hydrogen <i>d</i> -Tartrate or Potassium Hydrogen L-Tartrate)
204	Potassium Bromate
247	Potassium Carbonate (anhydrous)
86	Potassium Chloride
468	Potassium Dihydrogen Phosphate (Potassium Phosphate, Monobasic)
129	Potassium Gluconate

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250	Potassium Hydrogen Carbonate (Potassium Bicarbonate or Potassium Acid Carbonate)
232	Potassium Hydroxide (Caustic Potash)
298	Potassium Lactate
409	Potassium Metaphosphate
214	Potassium Nitrate
304	Potassium Norbixin
403	Potassium Polyphosphate
341	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
338	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
244	Potassium Sorbate
452	Potassium Sulfate
367	Propanol
375	Propiconazole
368	Propionaldehyde
369	Propionic Acid
393	Propyl Gallate
311	Propyl <i>p</i> -Hydroxybenzoate
376	Propylamine
377	Propylene Glycol
40	Propylene Glycol Alginate
378	Propylene Glycol Esters of Fatty Acids
357	Psicose Epimerase (Allulose Epimerase)
335	Pyrazine
336	Pyridoxine Hydrochloride (Vitamin B ₆)
337	Pyrimethanil
346	Pyrrole
340	Pyrrolidine
445	Riboflavin (Vitamin B ₂)
447	Riboflavin 5'-Phosphate Sodium (Sodium Riboflavin Phosphate or Sodium Vitamin B ₂ Phosphate)
446	Riboflavin Tetrabutyrates (Vitamin B ₂ Tetrabutyrates)
169	Saccharin
293	Silicon Dioxide (Silica Gel)
229	Silicone Resin (Polydimethylsiloxane)
162	Sodium Acetate
39	Sodium Alginate
11	Sodium L-Ascorbate (Vitamin C Sodium)
43	Sodium Benzoate
251	Sodium Bicarbonate (Sodium Hydrogen Carbonate or Bicarbonate Soda)
252	Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)

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104	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)
273	Sodium Carboxymethylstarch
101	Sodium Caseinate
3	Sodium Chlorite
152	Sodium Chondroitin Sulfate
275	Sodium Copper Chlorophyllin
270	Sodium Dehydroacetate
472	Sodium Dihydrogen Phosphate (Sodium Phosphate, Monobasic)
83	Sodium Erythorbate (Sodium Isoascorbate)
118	Sodium Ferrous Citrate (Sodium Iron Citrate)
132	Sodium Gluconate
180	Sodium Hydrosulfite (Hydrosulfite)
234	Sodium Hydroxide (Caustic Soda)
178	Sodium Hypochlorite (Hypochlorite of Soda)
267	Sodium Iron Chlorophyllin
301	Sodium Lactate
458	Sodium DL-Malate (Sodium <i>d</i> l-Malate)
410	Sodium Metaphosphate
288	Sodium Methoxide (Sodium Methylate)
215	Sodium Nitrate
6	Sodium Nitrite
305	Sodium Norbixin
97	Sodium Oleate
316	Sodium Pantothenate
394	Sodium Polyacrylate
404	Sodium Polyphosphate
373	Sodium Propionate
345	Sodium Pyrophosphate (Tetrasodium Pyrophosphate)
339	Sodium Pyrosulfite (Sodium Metabisulfite or Acid Sulfite of Soda)
171	Sodium Saccharin (Soluble Saccharin)
24	Sodium Selenite
240	Sodium Stearoyl Lactylate
455	Sodium Sulfate
34	Sodium Sulfite
243	Sorbic Acid
241	Sorbitan Esters of Fatty Acids
242	D-Sorbitol (D-Sorbit)
161	Starch Acetate
95	Starch Sodium Octenyl Succinate

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148	Succinic Acid
236	Sucralose (Trichlorogalactosucrose)
228	Sucrose Esters of Fatty Acids
291	Sulfur Dioxide (Sulfurous Acid Anhydride)
448	Sulfuric Acid
333	Sunflower Lecithin
205	DL-Tartaric Acid (<i>d</i> /-Tartaric Acid)
206	L-Tartaric Acid (<i>d</i> -Tartaric Acid)
272	Terpene Hydrocarbons
271	Terpineol
160	Terpinyl Acetate
268	5,6,7,8-Tetrahydroquinoxaline
269	2,3,5,6-Tetramethylpyrazine
263	L-Theanine
254	Thiabendazole
257	Thiamine Dicetylsulfate (Vitamin B ₁ Dicetylsulfate)
260	Thiamine Dilaurylsulfate (Vitamin B ₁ Dilaurylsulfate)
255	Thiamine Hydrochloride (Vitamin B ₁ Hydrochloride)
256	Thiamine Mononitrate (Vitamin B ₁ Mononitrate)
259	Thiamine Naphthalene-1,5-disulfonate (Vitamin B ₁ Naphthalene-1,5-disulfonate)
258	Thiamine Thiocyanate (Vitamin B ₁ Thiocyanate)
261	Thioethers (except those generally recognized as highly toxic)
262	Thiols (Thioalcohols) (except those generally recognized as highly toxic)
284	DL-Threonine
285	L-Threonine
295	Titanium Dioxide
277	<i>d</i> /- α -Tocopherol
278	All- <i>rac</i> - α -Tocopheryl Acetate
279	<i>R,R,R</i> - α -Tocopheryl Acetate
463	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
115	Triethyl Citrate
464	Trimagnesium Phosphate (Magnesium Phosphate, Tribasic)
282	Trimethylamine
283	2,3,5-Trimethylpyrazine
462	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
121	Trisodium Citrate (Sodium Citrate)
474	Trisodium Phosphate (Sodium Phosphate, Tribasic)
280	DL-Tryptophan
281	L-Tryptophan

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68	γ -Undecalactone (Undecalactone)
314	Valeraldehyde
313	L-Valine
306	Vanillin
320	Vitamin A (Retinol)
321	Vitamin A Esters of Fatty Acids (Retinol Fatty Acids Esters)
110	Xylitol
1	Zinc salts (limited to Zinc Gluconate and Zinc Sulfate)