

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 473 in total as of August 30, 2022. 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
333	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
378	Allyl Hexanoate (Allyl Caproate)
55	Allyl Isothiocyanate (Volatile Oil of Mustard)
447	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Dried: Burnt Ammonium Alum)
448	Aluminum Potassium Sulfate (Crystal: Alum or Potassium Alum, Dried: Burnt Alum)
29	(3-Amino-3-carboxypropyl)dimethylsulfonium Chloride
45	Ammonia
36	Ammonium Alginate
248	Ammonium Bicarbonate (Ammonium Hydrogen Carbonate)
245	Ammonium Carbonate
85	Ammonium Chloride
464	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic)
33	Ammonium Hydrogen Sulfite Water
46	Ammonium Isovalerate
102	Ammonium Persulfate
449	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
389	Aromatic Alcohols
390	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
384	Benzaldehyde
42	Benzoic Acid
100	Benzoyl Peroxide
166	Benzyl Acetate
383	Benzyl Alcohol
372	Benzyl Propionate
316	Biotin
318	Bisbentiamine (Benzoylthiamine Disulfide)
403	<i>d</i> -Borneol
356	Butanol
165	Butyl Acetate
357	Butylamine
358	<i>sec</i> -Butylamine
435	Butyl Butyrate
309	Butyl <i>p</i> -Hydroxybenzoate
360	Butylated Hydroxyanisole
192	Butylated Hydroxytoluene
359	Butyraldehyde
431	Butyric Acid
155	Calcium Acetate
38	Calcium Alginate
8	Calcium L-Ascorbate
247	Calcium Carbonate
103	Calcium Carboxymethylcellulose (Calcium Cellulose Glycolate)
87	Calcium Chloride
117	Calcium Citrate
468	Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)
341	Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)
79	Calcium Disodium Ethylenediaminetetraacetate (Calcium Disodium EDTA)
130	Calcium Gluconate
125	Calcium Glycerophosphate
232	Calcium Hydroxide (Slaked Lime)
298	Calcium Lactate

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467	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
173	Calcium Oxide
314	Calcium Pantothenate
370	Calcium Propionate
441	Calcium 5'-Ribonucleotide
170	Calcium Saccharin
140	Calcium Silicate
244	Calcium Sorbate
236	Calcium Stearate
238	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
451	Calcium Sulfate
106	Canthaxanthin
293	Carbon Dioxide (Carbonic Acid Gas)
105	β -Carotene
111	Chitin-Glucan
291	Chlorine Dioxide
2	Chlorous Acid Water
151	Cholecalciferol (Vitamin D ₃)
189	1,8-Cineole (Eucalyptol)
230	Cinnamaldehyde (Cinnamic Aldehyde)
142	Cinnamic Acid
159	Cinnamyl Acetate
229	Cinnamyl Alcohol (Cinnamic Alcohols)
186	Citral
113	Citric Acid
187	Citronellal
188	Citronellol
158	Citronellyl Acetate
109	Citronellyl Formate
328	Copolymer of Vinylimidazole/Vinylpyrrolidone (PVI/PVP)
275	Copper Chlorophyll
273	Copper salts (limited to Copper Gluconate and Cupric Sulfate)
157	Cyclohexyl Acetate
434	Cyclohexyl Butyrate
184	L-Cystein Monohydrochloride
263	Decanal (Decyl Aldehyde)
264	Decanol (Decyl Alcohol)
463	Diammonium Hydrogen Phosphate (Ammonium Phosphate, Dibasic)
193	Dibenzoyl Thiamine

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194	Dibenzoyl Thiamine Hydrochloride
182	2,3-Diethyl-5-methylpyrazine
181	2,3-Diethylpyrazine
191	Difenoconazole
295	Dimethyl Dicarboxylate
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,l</i> -Tartrate)
465	Dipotassium Hydrogen Phosphate (Potassium Phosphate, Dibasic)
208	Dipotassium L-Tartrate (Dipotassium <i>d</i> -Tartrate)
185	Disodium 5'-Cytidylate (Sodium 5'-Cytidylate)
342	Disodium Dihydrogen Pyrophosphate (Acid Disodium Pyrophosphate)
80	Disodium Ethylenediaminetetraacetate (Disodium EDTA)
126	Disodium Glycyrrhizinate
112	Disodium 5'-Guanylate (Sodium 5'-Guanylate)
469	Disodium Hydrogen Phosphate (Disodium Phosphate)
64	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
442	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
150	Disodium Succinate
211	Disodium DL-Tartrate (Disodium <i>d,l</i> -Tartrate)
212	Disodium L-Tartrate (Disodium <i>d</i> -Tartrate)
67	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
458	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
433	Ethyl Butyrate
143	Ethyl Cinnamate
265	Ethyl Decanoate (Ethyl Caprate)
71	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
381	Ethyl Heptanoate (Ethyl Enanthate)
379	Ethyl Hexanoate (Ethyl Caproate)

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308	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)
349	Ethyl Phenylacetate
369	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
343	Ferric Pyrophosphate
354	Ferrocyanides (limited to Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), and Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
131	Ferrous Gluconate (Iron Gluconate)
452	Ferrous Sulfate
363	Fludioxonil
430	Folic Acid
225	Food Blue No.1 (Brilliant Blue FCF) and its Aluminum Lake
226	Food Blue No.2 (Indigo Carmine) and its Aluminum Lake
224	Food Green No.3 (Fast Green FCF) and its Aluminum Lake
215	Food Red No.2 (Amaranth) and its Aluminum Lake
216	Food Red No.3 (Erythrosine) and its Aluminum Lake
217	Food Red No.40 (Allura Red AC) and its Aluminum Lake
218	Food Red No.102 (New Coccine)
219	Food Red No.104 (Phloxine)
220	Food Red No.105 (Rose Bengal)
221	Food Red No.106 (Acid Red)
222	Food Yellow No.4 (Tartrazine) and its Aluminum Lake
223	Food Yellow No.5 (Sunset Yellow FCF) and its Aluminum Lake
361	Fumaric Acid
364	Furfurals and its derivatives (except those generally recognized as highly toxic)
146	Geraniol

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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
377	Hexanoic Acid (Caproic Acid)
380	Hexylamine
147	High-Test Hypochlorite
317	L-Histidine Monohydrochloride
179	Hypobromous Acid Water
90	Hydrochloric Acid
99	Hydrogen Peroxide
322	Hydroxycitronellal
323	Hydroxycitronellal Dimethylacetal
321	1-Hydroxyethylidene-1,1-Diphosphonic Acid
325	Hydroxypropyl Cellulose
324	Hydroxypropyl Distarch Phosphate
327	Hydroxypropyl Methylcellulose
326	Hydroxypropyl Starch
177	Hypochlorous Acid Water
65	Imazalil
66	Indoles and its derivatives
48	Ion Exchange Resin
47	Ionone
299	Iron Lactate
176	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
153	Isoamyl Acetate
49	Isoamyl Alcohol
432	Isoamyl Butyrate
107	Isoamyl Formate
51	Isoamyl Isovalerate
347	Isoamyl Phenylacetate
368	Isoamyl Propionate
57	Isobutanol
59	Isobutylaldehyde (Isobutanal)

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58	Isobutylamine
306	Isobutyl <i>p</i> -Hydroxybenzoate
348	Isobutyl Phenylacetate
50	Isoeugenol
63	L-Isoleucine
62	Isopentylamine
60	Isopropanol
61	Isopropylamine
114	Isopropyl Citrate
307	Isopropyl <i>p</i> -Hydroxybenzoate
53	Isoquinoline
54	Isothiocyanates (except those generally recognized as highly toxic)
56	Isovaleraldehyde
145	Ketones
296	Lactic Acid
436	Lactones (except those generally recognized as highly toxic)
440	Linalool
168	Linalyl Acetate
437	L-Lysine L-Aspartate
439	L-Lysine L-Glutamate
438	L-Lysine Monohydrochloride
252	Magnesium Carbonate
89	Magnesium Chloride
234	Magnesium Hydroxide
471	Magnesium Monohydrogen Phosphate
175	Magnesium Oxide
141	Magnesium Silicate
237	Magnesium Stearate
454	Magnesium Sulfate
455	DL-Malic Acid (<i>d</i> / <i>-</i> Malic Acid)
404	Maltol
405	D-Mannitol (D-Mannite)
427	<i>d</i> / <i>-</i> Menthol (<i>d</i> / <i>-</i> Peppermint Camphor)
428	/ <i>-</i> Menthol (Peppermint Camphor)
167	/ <i>-</i> Menthyl Acetate
406	Metatartaric Acid
409	DL-Methionine
410	L-Methionine
311	<i>p</i> -Methylacetophenone

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44	Methyl Anthranilate
419	2-Methylbutanol
420	3-Methyl-2-butanol
423	<i>trans</i> -2-Methyl-2-butenal
424	3-Methyl-2-butenal
425	3-Methyl-2-butenol
422	2-Methylbutyraldehyde
421	2-Methylbutylamine
415	Methyl Cellulose
144	Methyl Cinnamate
414	5-Methyl-6,7-dihydro-5 <i>H</i> -cyclopentapyrazine
426	Methyl Hesperidin (Soluble Vitamin P)
416	1-Methylnaphthalene
411	Methyl N-Methylantranilate
417	Methyl β -Naphthyl Ketone
418	2-Methypyrazine
413	6-Methylquinoline
412	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
362	Monosodium Fumarate (Sodium Fumarate)
138	Monosodium L-Glutamate
149	Monosodium Succinate
459	Monostarch Phosphate
429	Morpholine Salts of Fatty Acids
286	Natamycin (Pimaricin)
301	Neotame
289	Nicotinamide (Niacinamide)
288	Nicotinic Acid (Niacin)
285	Nisin
4	Nitrous Oxide
302	γ -Nonalactone (Nonalactone)
92	Octanal (Caprylic Aldehyde or Octyl Aldehyde)
93	Octanoic Acid

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203	Oxalic Acid
174	Oxidized Starch
385	2-Pentanol (<i>sec</i> -Amyl alcohol)
387	<i>trans</i> -2-Pentenal
388	1-Penten-3-ol
386	Pentylamine
98	Peracetic Acid
382	<i>l</i> -Perillaldehyde
164	Phenethyl Acetate (Phenylethyl Acetate)
351	Phenethylamine
352	Phenol Ethers (except those generally recognized as highly toxic)
353	Phenols (except those generally recognized as highly toxic)
346	L-Phenylalanine
96	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
350	2-(3-Phenylpropyl)pyridine
473	Phosphated Distarch Phosphate
457	Phosphoric Acid
329	Piperidine
330	Piperonal (Heliotropine)
331	Piperonyl Butoxide
400	Polybutene (Polybutylene)
393	Polyisobutylene (Butyl Rubber)
394	Polysorbate 20
395	Polysorbate 60
396	Polysorbate 65
397	Polysorbate 80
163	Polyvinyl Acetate
399	Polyvinylpyrrolidone
398	Polyvinylpyrrolidone
37	Potassium Alginate
209	Potassium DL-Bitartrate (Potassium Hydrogen <i>d</i> l-Tartrate or Potassium Hydrogen DL-Tartrate)
210	Potassium L-Bitartrate (Potassium Hydrogen <i>d</i> -Tartrate or Potassium Hydrogen L-Tartrate)
204	Potassium Bromate
246	Potassium Carbonate (anhydrous)
86	Potassium Chloride
466	Potassium Dihydrogen Phosphate (Potassium Phosphate, Monobasic)
129	Potassium Gluconate
249	Potassium Hydrogen Carbonate (Potassium Bicarbonate or Potassium Acid Carbonate)
231	Potassium Hydroxide (Caustic Potash)

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297	Potassium Lactate
407	Potassium Metaphosphate
213	Potassium Nitrate
303	Potassium Norbixin
401	Potassium Polyphosphate
340	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
337	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
243	Potassium Sorbate
450	Potassium Sulfate
365	Propanol
373	Propiconazole
366	Propionaldehyde
367	Propionic Acid
391	Propyl Gallate
310	Propyl <i>p</i> -Hydroxybenzoate
374	Propylamine
375	Propylene Glycol
40	Propylene Glycol Alginate
376	Propylene Glycol Esters of Fatty Acids
355	Psicose Epimerase (Allulose Epimerase)
334	Pyrazine
335	Pyridoxine Hydrochloride (Vitamin B ₆)
336	Pyrimethanil
345	Pyrrole
339	Pyrrolidine
443	Riboflavin (Vitamin B ₂)
445	Riboflavin 5'-Phosphate Sodium (Sodium Riboflavin Phosphate or Sodium Vitamin B ₂ Phosphate)
444	Riboflavin Tetrabutyrates (Vitamin B ₂ Tetrabutyrates)
169	Saccharin
292	Silicon Dioxide (Silica Gel)
228	Silicone Resin (Polydimethylsiloxane)
162	Sodium Acetate
39	Sodium Alginate
11	Sodium L-Ascorbate (Vitamin C Sodium)
43	Sodium Benzoate
250	Sodium Bicarbonate (Sodium Hydrogen Carbonate or Bicarbonate Soda)
251	Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)
104	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)
272	Sodium Carboxymethylstarch

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101	Sodium Caseinate
3	Sodium Chlorite
152	Sodium Chondroitin Sulfate
274	Sodium Copper Chlorophyllin
269	Sodium Dehydroacetate
470	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)
233	Sodium Hydroxide (Caustic Soda)
178	Sodium Hypochlorite (Hypochlorite of Soda)
266	Sodium Iron Chlorophyllin
300	Sodium Lactate
456	Sodium DL-Malate (Sodium <i>d/-</i> Malate)
408	Sodium Metaphosphate
287	Sodium Methoxide (Sodium Methylate)
214	Sodium Nitrate
6	Sodium Nitrite
304	Sodium Norbixin
97	Sodium Oleate
315	Sodium Pantothenate
392	Sodium Polyacrylate
402	Sodium Polyphosphate
371	Sodium Propionate
344	Sodium Pyrophosphate (Tetrasodium Pyrophosphate)
338	Sodium Pyrosulfite (Sodium Metabisulfite or Acid Sulfite of Soda)
171	Sodium Saccharin (Soluble Saccharin)
24	Sodium Selenite
239	Sodium Stearoyl Lactylate
453	Sodium Sulfate
34	Sodium Sulfite
242	Sorbic Acid
240	Sorbitan Esters of Fatty Acids
241	D-Sorbitol (D-Sorbit)
161	Starch Acetate
95	Starch Sodium Octenyl Succinate
148	Succinic Acid
235	Sucralose (Trichlorogalactosucrose)

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227	Sucrose Esters of Fatty Acids
290	Sulfur Dioxide (Sulfurous Acid Anhydride)
446	Sulfuric Acid
332	Sunflower Lecithin
205	DL-Tartaric Acid (<i>d</i> l-Tartaric Acid)
206	L-Tartaric Acid (<i>d</i> -Tartaric Acid)
271	Terpene Hydrocarbons
270	Terpineol
160	Terpinyl Acetate
267	5,6,7,8-Tetrahydroquinoxaline
268	2,3,5,6-Tetramethylpyrazine
262	L-Theanine
253	Thiabendazole
256	Thiamine Dicetylsulfate (Vitamin B ₁ Dicetylsulfate)
259	Thiamine Dilaurylsulfate (Vitamin B ₁ Dilaurylsulfate)
254	Thiamine Hydrochloride (Vitamin B ₁ Hydrochloride)
255	Thiamine Mononitrate (Vitamin B ₁ Mononitrate)
258	Thiamine Naphthalene-1,5-disulfonate (Vitamin B ₁ Naphthalene-1,5-disulfonate)
257	Thiamine Thiocyanate (Vitamin B ₁ Thiocyanate)
260	Thioethers (except those generally recognized as highly toxic)
261	Thiols (Thioalcohols) (except those generally recognized as highly toxic)
283	DL-Threonine
284	L-Threonine
294	Titanium Dioxide
276	<i>d</i> l- α -Tocopherol
277	All- <i>rac</i> - α -Tocopheryl Acetate
278	<i>R,R,R</i> - α -Tocopheryl Acetate
461	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
115	Triethyl Citrate
462	Trimagnesium Phosphate (Magnesium Phosphate, Tribasic)
281	Trimethylamine
282	2,3,5-Trimethylpyrazine
460	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
121	Trisodium Citrate (Sodium Citrate)
472	Trisodium Phosphate (Sodium Phosphate, Tribasic)
279	DL-Tryptophan
280	L-Tryptophan
68	γ -Undecalactone (Undecalactone)
313	Valeraldehyde

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312	L-Valine
305	Vanillin
319	Vitamin A (Retinol)
320	Vitamin A Esters of Fatty Acids (Retinol Fatty Acids Esters)
110	Xylitol
1	Zinc salts (limited to Zinc Gluconate and Zinc Sulfate)