

List of Designated Additives

The substances below are the designated additives appearing in Table 1, as mentioned in Article 12 of the Enforcement Regulations under the Food Sanitation Law. These additives are listed here in alphabetic order. They are 455 in total as of July 03, 2018. The number preceding the name of each additive is the sequence number given to the corresponding additive in the original Japanese table.

16	Acesulfame Potassium (Acesulfame K)
20	Acetaldehyde
322	Acetic Acid, Glacial
23	Acetone
22	Acetophenone
17	Acetylated Distarch Adipate
19	Acetylated Distarch Phosphate
18	Acetylated Oxidized Starch
5	Adipic Acid
26	Advantame
32	DL-Alanine
190	Aliphatic Higher Alcohols
191	Aliphatic Higher Aldehydes (except those generally recognized as highly toxic)
192	Aliphatic Higher Hydrocarbons (except those generally recognized as highly toxic)
178	Allyl Cyclohexylpropionate
364	Allyl Hexanoate (Allyl Caproate)
53	Allyl Isothiocyanate (Volatile Oil of Mustard)
429	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Desiccated: Burnt Ammonium Alum)
430	Aluminum Potassium Sulfate (Crystal: Alum or Potassium Alum, Desiccated: Burnt Alum)
29	(3-Amino-3-carboxypropyl)dimethylsulfonium chloride
43	Ammonia
35	Ammonium Alginate
240	Ammonium Bicarbonate (Ammonium Hydrogen Carbonate)
237	Ammonium Carbonate
81	Ammonium Chloride
446	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic or Monoammonium Phosphate)
44	Ammonium isovalerate
98	Ammonium Persulfate
431	Ammonium Sulfate
30	Amyl alcohol
31	α -Amylcinnamaldehyde (α -Amylcinnamic Aldehyde)
27	Anisaldehyde (<i>p</i> -Methoxybenzaldehyde)
28	b-apo-8'-carotenal
34	L-Arginine L-Glutamate
373	Aromatic Alcohols
374	Aromatic Aldehydes (except those generally recognized as highly toxic)
7	L-Ascorbic Acid (Vitamin C)
9	L-Ascorbic Acid 2-glucoside
12	L-Ascorbic Palmitate (Vitamin C Palmitate)

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10	L-Ascorbic Stearate (Vitamin C Stearate)
13	Asparaginase
15	Aspartame (L-a-Aspartyl-L-Phenylalanine Methyl Ester)
25	Azoxystrobin
369	Benzaldehyde
40	Benzoic Acid
96	Benzoyl Peroxide
161	Benzyl Acetate
368	Benzyl Alcohol
359	Benzyl Propionate
306	Biotin
308	Bisbentiamine (Benzoylthiamine Disulfide)
387	<i>d</i> -Borneol
344	Butanol
160	Butyl Acetate
345	Butylamine
417	Butyl Butyrate
299	Butyl <i>p</i> -Hydroxybenzoate
347	Butylated Hydroxyanisole
186	Butylated Hydroxytoluene
346	Butyraldehyde
413	Butyric Acid
150	Calcium Acetate
37	Calcium Alginate
8	Calcium L-Ascorbate
239	Calcium Carbonate
99	Calcium Carboxymethylcellulose (Calcium Cellulose Glycolate)
83	Calcium Chloride
112	Calcium Citrate
450	Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)
330	Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)
75	Calcium Disodium Ethylenediaminetetraacetate (Calcium Disodium EDTA)
125	Calcium Gluconate
120	Calcium Glycerophosphate
224	Calcium Hydroxide (Slaked Lime)
288	Calcium Lactate
449	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
168	Calcium Oxide
304	Calcium Pantothenate

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357	Calcium Propionate
423	Calcium 5'-Ribonucleotide
165	Calcium Saccharin
135	Calcium Silicate
236	Calcium Sorbate
228	Calcium Stearate
230	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
433	Calcium Sulfate
102	Canthaxanthin
284	Carbon Dioxide (Carbonic Acid, Gas)
101	b-Carotene
282	Chlorine Dioxide
2	Chlorous Acid Water
146	Cholecalciferol (Vitamin D3)
184	1,8-Cineole (Eucalyptol)
222	Cinnamaldehyde (Cinnamic Aldehyde)
137	Cinnamic Acid
154	Cinnamyl Acetate
221	Cinnamyl Alcohol (Cinnamic Alcohols)
181	Citral
108	Citric Acid
182	Citronellal
183	Citronellol
153	Citronellyl Acetate
105	Citronellyl Formate
266	Copper Chlorophyll
264	Copper Salts (limited to Copper Gluconate and Cupric Sulfate)
152	Cyclohexyl Acetate
416	Cyclohexyl Butyrate
179	L-Cystein Monohydrochloride
254	Decanal (Decyl Aldehyde)
255	Decanol (Decyl Alcohol)
445	Diammonium Hydrogen Phosphate (Diammonium Phosphate or Ammonium Phosphate, Dibasic)
187	Dibenzoyl Thiamine
188	Dibenzoyl Thiamine Hydrochloride
177	2,3-Diethyl-5-methylpyrazine
176	2,3 – Diethylpyrazine
193	2,3-Dimethylpyrazine
194	2,5-Dimethylpyrazine

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195	2,6-Dimethylpyrazine
196	2,6-Dimethylpyridine
185	Diphenyl (Biphenyl)
447	Dipotassium Hydrogen Phosphate (Dipotassium Phosphate or Potassium Phosphate, Dibasic)
180	Disodium 5'-Cytidylate (Sodium 5'-Cytidylate)
331	Disodium Dihydrogen Pyrophosphate (Acid Disodium Pyrophosphate)
76	Disodium Ethylenediaminetetraacetate (Disodium EDTA)
121	Disodium Glycyrrhizinate
107	Disodium 5'-Guanylate (Sodium 5'-Guanylate)
451	Disodium Hydrogen Phosphate (Disodium Phosphate)
60	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
424	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
145	Disodium Succinate
203	Disodium DL-Tartrate (Disodium <i>d/l</i> -Tartrate)
204	Disodium L-Tartrate (Disodium <i>l</i> -Tartrate)
63	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
440	Distarch Phosphate
80	Ergocalciferol (Calciferol or Vitamin D2)
78	Erythorbic Acid (Isoascorbic Acid)
65	Ester Gum
66	Esters
77	Ethers
149	Ethyl Acetate
21	Ethyl Acetoacetate
415	Ethyl Butyrate
138	Ethyl Cinnamate
256	Ethyl Decanoate (Ethyl Caprate)
67	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
366	Ethyl Heptanoate (Ethyl Enanthate)
365	Ethyl Hexanoate (Ethyl Caproate)
298	Ethyl <i>p</i> -Hydroxybenzoate
50	Ethyl Isovalerate
71	2-Ethyl-3-methylpyrazine
72	2-Ethyl-5-methylpyrazine
73	2-Ethyl-6-methylpyrazine
74	5-Ethyl-2-methylpyridine
90	Ethyl Octanoate (Ethyl Caprylate)
338	Ethyl Phenylacetate
356	Ethyl Propionate

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69	2-Ethylpyrazine
70	3-Ethylpyridine
68	Ethylvanillin
87	Eugenol
189	Fatty Acids
115	Ferric Ammonium Citrate
84	Ferric Chloride
114	Ferric Citrate
332	Ferric Pyrophosphate
343	Ferrocyanides (Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
126	Ferrous Gluconate (Iron Gluconate)
434	Ferrous Sulfate
350	Fludioxonil
412	Folic Acid
217	Food Blue No.1 (Brilliant Blue FCF) and its Aluminum Lake
218	Food Blue No.2 (Indigo Carmine) and its Aluminum Lake
216	Food Green No.3 (Fast Green FCF) and its Aluminum Lake
207	Food Red No.2 (Amaranth) and its Aluminum Lake
208	Food Red No.3 (Erythrosine) and its Aluminum Lake
209	Food Red No.40 (Allura Red AC) and its Aluminum Lake
210	Food Red No.102 (New Coccine)
211	Food Red No.104 (Phloxine)
212	Food Red No.105 (Rose Bengale)
213	Food Red No.106 (Acid Red)
214	Food Yellow No.4 (Tartrazine) and its Aluminum Lake
215	Food Yellow No.5 (Sunset Yellow FCF) and its Aluminum Lake
348	Fumaric Acid
351	Furfurals and its derivatives (except those generally recognized as highly toxic)
141	Geraniol
151	Geranyl Acetate
104	Geranyl Formate
123	Gluconic Acid
122	Glucono-delta-Lactone (Gluconolactone)
129	L-Glutamic Acid
128	Glutamyl-valyl-glycine
118	Glycerol (Glycerin)
119	Glycerol Esters of Fatty Acids
117	Glycine

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363	Hexanoic Acid (Caproic Acid)
142	High Test Hypochlorite
307	L-Histidine Monohydrochloride
174	Hypobromous Acid Water
86	Hydrochloric Acid
95	Hydrogen Peroxide
312	Hydroxycitronellal
313	Hydroxycitronellal Dimethylacetal
311	1-Hydroxyethylidene-1,1-Diphosphonic Acid
315	Hydroxypropyl Cellulose
314	Hydroxypropyl Distarch Phosphate
317	Hydroxypropyl Methylcellulose
316	Hydroxypropyl Starch
172	Hypochlorous Acid Water
61	Imazalil
62	Indoles and its derivatives
46	Ion Exchange Resin
45	Ionone
289	Iron Lactate
171	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
148	Isoamyl Acetate
47	Isoamylalcohol
414	Isoamyl Butyrate
103	Isoamyl Formate
49	Isoamyl Isovalerate
336	Isoamyl Phenylacetate
355	Isoamyl Propionate
55	Isobutanol
56	Isobutylaldehyde (Isobutanal)
296	Isobutyl <i>p</i> -Hydroxybenzoate
337	Isobutyl Phenylacetate
48	Isoeugenol
59	L-Isoleucine
58	Isopentylamine
57	Isopropanol
109	Isopropyl Citrate
297	Isopropyl <i>p</i> -Hydroxybenzoate
51	Isoquinoline
52	Isothiocyanates (except those generally recognized as highly toxic)

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54	Isovaleraldehyde
140	Ketones
286	Lactic Acid
418	Lactones (except those generally recognized as highly toxic)
422	Linalool
163	Linalyl Acetate
419	L-Lysine L-Aspartate
421	L-Lysine L-Glutamate
420	L-Lysine Monohydrochloride
243	Magnesium Carbonate
85	Magnesium Chloride
226	Magnesium Hydroxide
453	Magnesium Monohydrogen Phosphate
170	Magnesium Oxide
136	Magnesium Silicate
229	Magnesium Stearate
436	Magnesium Sulfate
437	DL-Malic Acid (<i>d/l</i> -Malic Acid)
388	Maltol
389	D-Mannitol (D-Mannite)
409	<i>d/l</i> -Menthol (<i>d/l</i> -Peppermint Camphor)
410	<i>l</i> -Menthol (Peppermint Camphor)
162	<i>l</i> -Menthyl Acetate
392	DL-Methionine
393	L-Methionine
301	<i>p</i> -Methylacetophenone
42	Methyl Anthranilate
402	2-Methylbutanol
403	3-Methyl-2-butanol
405	<i>trans</i> -2-Methyl-2-butenal, (<i>E</i>)-2-Methyl-2-butenal
406	3-Methyl-2-butenal
407	3-Methyl-2-butenol
404	2-Methylbutyraldehyde
398	Methyl Cellulose
139	Methyl Cinnamate
397	5-Methyl-6,7-dihydro-5 <i>H</i> -cyclopentapyrazine
408	Methyl Hesperidin (Soluble Vitamin P)
399	1-Methylnaphthalene
394	Methyl N-Methylantranilate

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400	Methyl b-Naphthyl Ketone
401	2-Methypyrazine
396	6-Methylquinoline
395	5-Methylquinoxaline
167	Methyl Salicylate
130	Monoammonium L-Glutamate
132	Monocalcium Di-L-Glutamate
134	Monomagnesium Di-L-Glutamate
111	Monopotassium Citrate and Tripotassium Citrate
131	Monopotassium L-Glutamate
14	Monosodium L-Aspartate
349	Monosodium Fumarate (Sodium Fumarate)
133	Monosodium L-Glutamate
144	Monosodium Succinate
441	Monostarch Phosphate
411	Morpholine Salts of Fatty Acids
277	Natamycin
291	Neotame
280	Nicotinamide (Niacinamide)
279	Nicotinic Acid (Niacin)
276	Nisin
4	Nitrous Oxide
292	g-Nonalactone (Nonalactone)
88	Octanal (Capryl Aldehyde or Octyl Aldehyde)
89	Octanoic Acid
197	Oxalic Acid
169	Oxidized Starch
370	2-Pentanol (<i>sec</i> -Amyl Alcohol)
371	<i>trans</i> -2-Pentenal
372	1-Penten-3-ol
94	Peracetic Acid
367	<i>l</i> -Perillaldehyde
159	Phenethyl Acetate (Phenylethyl Acetate)
340	Phenethylamine
341	Phenol Ethers (except those generally recognized as highly toxic)
342	Phenols (except those generally recognized as highly toxic)
335	L-Phenylalanine
92	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
339	2-(3-Phenylpropyl)pyridine

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455	Phosphated Distarch Phosphate
439	Phosphoric Acid
318	Piperidine
319	Piperonal (Heliotropine)
320	Piperonyl Butoxide
384	Polybutene (Polybutylene)
377	Polyisobutylene (Butyl Rubber)
378	Polysorbate 20
379	Polysorbate 60
380	Polysorbate 65
381	Polysorbate 80
158	Polyvinyl Acetate
383	Polyvinylpyrrolidone
382	Polyvinylpyrrolidone
36	Potassium Alginate
201	Potassium DL-Bitartrate (Potassium Hydrogen DL-Tartrate or Potassium Hydrogen <i>d</i> l-Tartrate)
202	Potassium L-Bitartrate (Potassium Hydrogen L-Tartrate or Potassium Hydrogen <i>d</i> -Tartrate)
198	Potassium Bromate
238	Potassium Carbonate (anhydrous)
82	Potassium Chloride
448	Potassium Dihydrogen Phosphate (Monopotassium Phosphate)
124	Potassium Gluconate
223	Potassium Hydroxide (Caustic Potash)
287	Potassium Lactate
390	Potassium Metaphosphate
205	Potassium Nitrate
293	Potassium Norbixin
385	Potassium Polyphosphate
329	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
326	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
235	Potassium Sorbate
432	Potassium Sulfate
352	Propanol
360	Propiconazole
353	Propionaldehyde
354	Propionic Acid
375	Propyl Gallate
300	Propyl <i>p</i> -Hydroxybenzoate
361	Propylene Glycol

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39	Propylene Glycol Alginate
362	Propylene Glycol Esters of Fatty Acids
323	Pyrazine
324	Pyridoxine Hydrochloride (Vitamin B6)
325	Pyrimethanil
334	Pyrrole
328	Pyrrolidine
425	Riboflavin (Vitamin B2)
427	Riboflavin 5'-Phosphate Sodium (Riboflavin Phosphate Sodium, Vitamin B2 Phosphate Sodium)
426	Riboflavin Tetrabutryate (Vitamin B2 Tetrabutryate)
164	Saccharin
283	Silicon Dioxide (Silica Gel)
220	Silicone Resin (Polydimethylsiloxane)
157	Sodium Acetate
38	Sodium Alginate
11	Sodium L-Ascorbate (Vitamin C Sodium)
41	Sodium Benzoate
241	Sodium Bicarbonate (Bicarbonate Soda or Sodium Hydrogen Carbonate)
242	Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)
100	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)
263	Sodium Carboxymethylstarch
97	Sodium Caseinate
3	Sodium Chlorite
147	Sodium Chondroitin Sulfate
265	Sodium Copper Chlorophyllin
260	Sodium Dehydroacetate
452	Sodium Dihydrogen Phosphate (Monosodium Phosphate)
79	Sodium Erythorbate (Sodium Isoascorbate)
113	Sodium Ferrous Citrate (Sodium Iron Citrate)
127	Sodium Gluconate
175	Sodium Hydrosulfite (Hydrosulfite)
225	Sodium Hydroxide (Caustic Soda)
173	Sodium Hypochlorite (Hypochlorite of Soda)
257	Sodium Iron Chlorophyllin
290	Sodium Lactate
438	Sodium DL-Malate (Sodium <i>d/l</i> -Malate)
391	Sodium Metaphosphate
278	Sodium Methoxide (Sodium Methylate)
206	Sodium Nitrate

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6	Sodium Nitrite
294	Sodium Norbixin
93	Sodium Oleate
305	Sodium Pantothenate
376	Sodium Polyacrylate
386	Sodium Polyphosphate
358	Sodium Propionate
333	Sodium Pyrophosphate (Tetrasodium Pyrophosphate)
327	Sodium Pyrosulfite (Sodium Metabisulfite, Acid Sulfite of Soda)
166	Sodium Saccharin (Soluble Saccharin)
24	Sodium selenite
231	Sodium Stearoyl Lactylate
435	Sodium Sulfate
33	Sodium Sulfite
234	Sorbic Acid
232	Sorbitan Esters of Fatty Acids
233	D-Sorbitol (D-Sorbit)
156	Starch Acetate
91	Starch Sodium Octenyl Succinate
143	Succinic Acid
227	Sucralose (Trichlorogalactosucrose)
219	Sucrose Esters of Fatty Acids
281	Sulfur Dioxide (Sulfurous Acid, Anhydride)
428	Sulfuric Acid
321	Sunflower Lecithin
199	DL-Tartaric Acid (<i>d/l</i> -Tartaric Acid)
200	L-Tartaric Acid (<i>d</i> -Tartaric Acid)
262	Terpene Hydrocarbons
261	Terpineol
155	Terpinyl Acetate
258	5,6,7,8-Tetrahydroquinoxaline
259	2,3,5,6-Tetramethylpyrazine
253	L-Theanine
244	Thiabendazole
247	Thiamine Dicetylsulfate (Vitamin B1 Dicetylsulfate)
250	Thiamine Dilaurylsulfate (Vitamin B1 Dilaurylsulfate)
245	Thiamine Hydrochloride (Vitamin B1 Hydrochloride)
246	Thiamine Mononitrate (Vitamin B1 Mononitrate)
249	Thiamine Naphthalene-1,5-Disulfonate (Vitamin B1 Naphthalene-1,5-Disulfonate)

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248	Thiamine Thiocyanate (Vitamin B1 Thiocyanate)
251	Thioethers (except those generally recognized as highly toxic)
252	Thiols (Thioalcohols) (except those generally recognized as highly toxic)
274	DL-Threonine
275	L-Threonine
285	Titanium Dioxide
267	<i>d</i> / <i>l</i> - α -Tocopherol
268	<i>all-rac</i> - α -Tocopheryl Acetate
269	<i>R,R,R</i> - α -Tocopheryl Acetate
443	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
110	Triethyl Citrate
444	Trimagnesium Phosphate
272	Trimethylamine
273	2,3,5-Trimethylpyrazine
442	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
116	Trisodium Citrate (Sodium Citrate)
454	Trisodium Phosphate (Sodium Phosphate, Tribasic)
270	DL-Tryptophan
271	L-Tryptophan
64	γ -Undecalactone (Undecalactone)
303	Valeraldehyde
302	L-Valine
295	Vanillin
309	Vitamin A (Retinol)
310	Vitamin A Fatty Acids Esters (Retinol Esters of Fatty Acids Esters)
106	Xylitol
1	Zinc salts (limited to Zinc Gluconate and Zinc Sulfate)