

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 454 in total as of October 06, 2016. 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
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 Ref.
191	Aliphatic Higher Aldehydes (except those generally recognized as highly toxic) Ref.
192	Aliphatic Higher Hydrocarbons (except those generally recognized as highly toxic) Ref.
178	Allyl Cyclohexylpropionate
363	Allyl Hexanoate (Allyl Caproate)
53	Allyl Isothiocyanate (Volatile Oil of Mustard)
428	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Desiccated: Burnt Ammonium Alum)
429	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
445	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic or Monoammonium Phosphate)
44	Ammonium isovalerate
98	Ammonium Persulfate
430	Ammonium Sulfate
30	Amyl alcohol
31	alpha-Amylcinnamaldehyde (alpha-Amylcinnamic Aldehyde)
27	Anisaldehyde (p-Methoxybenzaldehyde)
28	β-apo-8'-carotenal
34	L-Arginine L-Glutamate
372	Aromatic Alcohols Ref.
373	Aromatic Aldehydes (except those generally recognized as highly toxic) Ref.
7	L-Ascorbic Acid (Vitamin C)
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-alpha-Aspartyl-L-Phenylalanine Methyl Ester)
25	Azoxystrobin
368	Benzaldehyde
40	Benzoic Acid
96	Benzoyl Peroxide
161	Benzyl Acetate
367	Benzyl Alcohol
359	Benzyl Propionate
306	Biotin
308	Bisbentiamine (Benzoylthiamine Disulfide)
386	d-Borneol
344	Butanol
160	Butyl Acetate
345	Butylamine
416	Butyl Butyrate
299	Butyl p-Hydroxybenzoate
347	Butylated Hydroxyanisole
186	Butylated Hydroxytoluene
346	Butyraldehyde
412	Butyric Acid
150	Calcium Acetate
37	Calcium Alginate

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8	Calcium L-Ascorbate
239	Calcium Carbonate
99	Calcium Carboxymethylcellulose (Calcium Cellulose Glycolate)
83	Calcium Chloride
112	Calcium Citrate
449	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
448	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
168	Calcium Oxide
304	Calcium Pantothenate
357	Calcium Propionate
422	Calcium 5'-Ribonucleotide
165	Calcium Saccharin
135	Calcium Silicate
236	Calcium Sorbate
228	Calcium Stearate
230	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
432	Calcium Sulfate
102	Canthaxanthin
284	Carbon Dioxide (Carbonic Acid, Gas)
101	beta-Carotene
282	Chlorine Dioxide
2	Chlorous Acid Water
146	Cholecalciferol (Vitamin D ₃)
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
415	Cyclohexyl Butyrate
179	L-Cystein Monohydrochloride
254	Decanal (Decyl Aldehyde)
255	Decanol (Decyl Alcohol)
444	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
195	2,6-Dimethylpyrazine
196	2,6-Dimethylpyridine
185	Diphenyl (Biphenyl)
446	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)
450	Disodium Hydrogen Phosphate (Disodium Phosphate)
60	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
423	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
145	Disodium Succinate
203	Disodium DL-Tartrate (Disodium <i>d</i> l-Tartrate)

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204	Disodium L-Tartrate (Disodium /-Tartrate)
63	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
439	Distarch Phosphate
80	Ergocalciferol (Calciferol or Vitamin D ₂)
78	Erythorbic Acid (Isoascorbic Acid)
65	Ester Gum
66	Esters Ref.
77	Ethers Ref.
149	Ethyl Acetate
21	Ethyl Acetoacetate
414	Ethyl Butyrate
138	Ethyl Cinnamate
256	Ethyl Decanoate (Ethyl Caprate)
67	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
365	Ethyl Heptanoate (Ethyl Enanthate)
364	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
69	2-Ethylpyrazine
70	3-Ethylpyridine
68	Ethylvanillin
87	Eugenol
189	Fatty Acids Ref.
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)
433	Ferrous Sulfate
350	Fludioxonil
411	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) Ref.
141	Geraniol
151	Geranyl Acetate
104	Geranyl Formate
123	Gluconic Acid
122	Glucono- δ -Lactone (Gluconolactone)
129	L-Glutamic Acid
128	Glutamyl-valyl-glycine
118	Glycerol (Glycerin)
119	Glycerol Esters of Fatty Acids
117	Glycine
362	Hexanoic Acid (Caproic Acid)
142	High Test Hypochlorite
307	L-Histidine Monohydrochloride
174	Hypobromous Acid Water

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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 Ref.
46	Ion Exchange Resin
45	Ionone
289	Iron Lactate
171	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
148	Isoamyl Acetate
47	Isoamylalcohol
413	Isoamyl Butyrate
103	Isoamyl Formate
49	Isoamyl Isovalerate
336	Isoamyl Phenylacetate
355	Isoamyl Propionate
55	Isobutanol
56	Isobutyraldehyde (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) Ref.
54	Isovaleraldehyde
140	Ketones Ref.
286	Lactic Acid
417	Lactones (except those generally recognized as highly toxic) Ref.
421	Linalool
163	Linalyl Acetate
418	L-Lysine L-Aspartate
420	L-Lysine L-Glutamate
419	L-Lysine Monohydrochloride
243	Magnesium Carbonate
85	Magnesium Chloride
226	Magnesium Hydroxide
452	Magnesium Monohydrogen Phosphate
170	Magnesium Oxide
136	Magnesium Silicate
229	Magnesium Stearate
435	Magnesium Sulfate
436	DL-Malic Acid (<i>d</i> -Malic Acid)
387	Maltol
388	D-Mannitol (D-Mannite)
408	<i>d</i> -Menthol (<i>d</i> -Peppermint Camphor)
409	<i>l</i> -Menthol (Peppermint Camphor)
162	<i>l</i> -Menthyl Acetate
391	DL-Methionine
392	L-Methionine
301	<i>p</i> -Methylacetophenone
42	Methyl Anthranilate
401	2-Methylbutanol
402	3-Methyl-2-butanol
404	<i>trans</i> -2-Methyl-2-butenal
405	3-Methyl-2-butenal
406	3-Methyl-2-butenol
403	2-Methylbutyraldehyde

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397	Methyl Cellulose
139	Methyl Cinnamate
396	5-Methyl-6,7-dihydro-5 <i>H</i> -cyclopentapyrazine
407	Methyl Hesperidin (Soluble Vitamin P)
398	1-Metyylnaphthalene
393	Methyl <i>N</i> -Methylantranilate
399	Methyl beta-Naphthyl Ketone
400	2-Methypyrazine
395	6-Methylquinoline
394	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
440	Monostarch Phosphate
410	Morpholine Salts of Fatty Acids
277	Natamycin
291	Neotame
280	Nicotinamide (Niacinamide)
279	Nicotinic Acid (Niacin)
276	Nisin
4	Nitrous Oxide
292	gamma-Nonalactone (Nonalactone)
88	Octanal (Capryl Aldehyde or Octyl Aldehyde)
89	Octanoic Acid
197	Oxalic Acid
169	Oxidized Starch
369	2-Pentanol (<i>sec</i> -Amyl Alcohol)
370	trans-2-Pentenal
371	1-Penten-3-ol
94	Peracetic Acid
366	<i>l</i> -Perillaldehyde
159	Phenethyl Acetate (Phenylethyl Acetate)
340	Phenethylamine
341	Phenol Ethers (except those generally recognized as highly toxic) Ref.
342	Phenols (except those generally recognized as highly toxic) Ref.
335	L-Phenylalanine
92	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
339	2-(3-Phenylpropyl)pyridine
454	Phosphated Distarch Phosphate
438	Phosphoric Acid
318	Piperidine
319	Piperonal (Heliotropine)
320	Piperonyl Butoxide
383	Polybutene (Polybutylene)
376	Polyisobutylene (Butyl Rubber)
377	Polysorbate 20
378	Polysorbate 60
379	Polysorbate 65
380	Polysorbate 80
158	Polyvinyl Acetate
382	Polyvinylpyrrolidone
381	Polyvinylpyrrolidone
36	Potassium Alginate
201	Potassium DL-Bitartrate (Potassium Hydrogen DL-Tartrate or Potassium Hydrogen <i>d</i> -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
447	Potassium Dihydrogen Phosphate (Monopotassium Phosphate)
124	Potassium Gluconate
223	Potassium Hydroxide (Caustic Potash)

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287	Potassium Lactate
389	Potassium Metaphosphate
205	Potassium Nitrate
293	Potassium Norbixin
384	Potassium Polyphosphate
329	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
326	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
235	Potassium Sorbate
431	Potassium Sulfate
352	Propanol
353	Propionaldehyde
354	Propionic Acid
374	Propyl Gallate
300	Propyl <i>p</i> -Hydroxybenzoate
360	Propylene Glycol
39	Propylene Glycol Alginate
361	Propylene Glycol Esters of Fatty Acids
323	Pyrazine
324	Pyridoxine Hydrochloride (Vitamin B ₆)
325	Pyrimethanil
334	Pyrrole
328	Pyrrolidine
424	Riboflavin (Vitamin B ₂)
426	Riboflavin 5'-Phosphate Sodium (Riboflavin Phosphate Sodium, Vitamin B ₂ Phosphate Sodium)
425	Riboflavin Tetrabutryate (Vitamin B ₂ 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
451	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
437	Sodium DL-Malate (Sodium <i>d/l</i> -Malate)
390	Sodium Metaphosphate
278	Sodium Methoxide (Sodium Methylate)
206	Sodium Nitrate
6	Sodium Nitrite
294	Sodium Norbixin
93	Sodium Oleate
305	Sodium Pantothenate
375	Sodium Polyacrylate
385	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
434	Sodium Sulfate
33	Sodium Sulfite

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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)
427	Sulfuric Acid
321	Sunflower Lecithin
199	DL-Tartaric Acid (<i>d</i> -Tartaric Acid)
200	L-Tartaric Acid (<i>d</i> -Tartaric Acid)
262	Terpene Hydrocarbons Ref.
261	Terpineol
155	Terpinyl Acetate
258	5,6,7,8-Tetrahydroquinoxaline
259	2,3,5,6-Tetramethylpyrazine
253	L-Theanine
244	Thiabenzazole
247	Thiamine Dicetylsulfate (Vitamin B ₁ Dicetylsulfate)
250	Thiamine Dilaurylsulfate (Vitamin B ₁ Dilaurylsulfate)
245	Thiamine Hydrochloride (Vitamin B ₁ Hydrochloride)
246	Thiamine Mononitrate (Vitamin B ₁ Mononitrate)
249	Thiamine Naphthalene-1,5-Disulfonate (Vitamin B ₁ Naphthalene-1,5-Disulfonate)
248	Thiamine Thiocyanate (Vitamin B ₁ Thiocyanate)
251	Thioethers (except those generally recognized as highly toxic) Ref.
252	Thiols (Thioalcohols) (except those generally recognized as highly toxic) Ref.
274	DL-Threonine
275	L-Threonine
285	Titanium Dioxide
267	<i>d</i> -alpha-Tocopherol
268	<i>all-rac</i> -alpha-Tocopheryl Acetate
269	<i>R,R,R</i> -alpha-Tocopheryl Acetate
442	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
110	Triethyl Citrate
443	Trimagnesium Phosphate
272	Trimethylamine
273	2,3,5-Trimethylpyrazine
441	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
116	Trisodium Citrate (Sodium Citrate)
453	Trisodium Phosphate (Sodium Phosphate, Tribasic)
270	DL-Tryptophan
271	L-Tryptophan
64	gamma-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)

Ref.: Refer to <http://www.ffcr.or.jp/zaidan/FFCRHOME.nsf/pages/list-desin.add-x>