

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 465 in total as of March 31, 2020. 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
326	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
193	Aliphatic Higher Alcohols
194	Aliphatic Higher Aldehydes (except those generally recognized as highly toxic)
195	Aliphatic Higher Hydrocarbons (except those generally recognized as highly toxic)
181	Allyl Cyclohexylpropionate
371	Allyl Hexanoate (Allyl Caproate)
54	Allyl Isothiocyanate (Volatile Oil of Mustard)
439	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Desiccated: Burnt Ammonium Alum)
440	Aluminum Potassium Sulfate (Crystal: Alum or Potassium Alum, Desiccated: Burnt Alum)
29	(3-Amino-3-carboxypropyl)dimethylsulfonium chloride
44	Ammonia
35	Ammonium Alginate
243	Ammonium Bicarbonate (Ammonium Hydrogen Carbonate)
240	Ammonium Carbonate
84	Ammonium Chloride
456	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic or Monoammonium Phosphate)
45	Ammonium isovalerate
101	Ammonium Persulfate
441	Ammonium Sulfate
30	Amyl alcohol
31	α -Amylcinnamaldehyde (α -Amylcinnamic Aldehyde)
27	Anisaldehyde (p-Methoxybenzaldehyde)
28	b-apo-8'-carotenal
34	L-Arginine L-Glutamate
40	Argon
382	Aromatic Alcohols
383	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
377	Benzaldehyde
41	Benzoic Acid
99	Benzoyl Peroxide
164	Benzyl Acetate
376	Benzyl Alcohol
365	Benzyl Propionate
310	<i>Biotin</i>
312	Bisbentiamine (Benzoylthiamine Disulfide)
396	d-Borneol
349	Butanol
163	Butyl Acetate
350	Butylamine
351	sec-Butylamine
427	Butyl Butyrate
303	Butyl p-Hydroxybenzoate
353	Butylated Hydroxyanisole
189	Butylated Hydroxytoluene
352	Butyraldehyde
423	Butyric Acid
153	Calcium Acetate
37	Calcium Alginate
8	Calcium L-Ascorbate
242	Calcium Carbonate
102	Calcium Carboxymethylcellulose (Calcium Cellulose Glycolate)
86	Calcium Chloride
115	Calcium Citrate
460	Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)
334	Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)
78	Calcium Disodium Ethylenediaminetetraacetate (Calcium Disodium EDTA)
128	Calcium Gluconate
123	Calcium Glycerophosphate
227	Calcium Hydroxide (Slaked Lime)
292	Calcium Lactate
459	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
171	Calcium Oxide
308	Calcium Pantothenate

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363	Calcium Propionate
433	Calcium 5'-Ribonucleotide
168	Calcium Saccharin
138	Calcium Silicate
239	Calcium Sorbate
231	Calcium Stearate
233	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
443	Calcium Sulfate
105	Canthaxanthin
287	Carbon Dioxide (Carbonic Acid, Gas)
104	β -Carotene
285	Chlorine Dioxide
2	Chlorous Acid Water
149	Cholecalciferol (Vitamin D3)
187	1,8-Cineole (Eucalyptol)
225	Cinnamaldehyde (Cinnamic Aldehyde)
140	Cinnamic Acid
157	Cinnamyl Acetate
224	Cinnamyl Alcohol (Cinnamic Alcohols)
184	Citral
111	Citric Acid
185	Citronellal
186	Citronellol
156	Citronellyl Acetate
108	Citronellyl Formate
269	Copper Chlorophyll
267	Copper Salts (limited to Copper Gluconate and Cupric Sulfate)
155	Cyclohexyl Acetate
426	Cyclohexyl Butyrate
182	L-Cystein Monohydrochloride
257	Decanal (Decyl Aldehyde)
258	Decanol (Decyl Alcohol)
455	Diammonium Hydrogen Phosphate (Diammonium Phosphate or Ammonium Phosphate, Dibasic)
190	Dibenzoyl Thiamine
191	Dibenzoyl Thiamine Hydrochloride
180	2,3-Diethyl-5-methylpyrazine
179	2,3 – Diethylpyrazine
289	Dimethyl dicarbonate
196	2,3-Dimethylpyrazine
197	2,5-Dimethylpyrazine

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198	2,6-Dimethylpyrazine
199	2,6-Dimethylpyridine
188	Diphenyl (Biphenyl)
457	Dipotassium Hydrogen Phosphate (Dipotassium Phosphate or Potassium Phosphate, Dibasic)
183	Disodium 5'-Cytidylate (Sodium 5'-Cytidylate)
335	Disodium Dihydrogen Pyrophosphate (Acid Disodium Pyrophosphate)
79	Disodium Ethylenediaminetetraacetate (Disodium EDTA)
124	Disodium Glycyrrhizinate
110	Disodium 5'-Guanylate (Sodium 5'-Guanylate)
461	Disodium Hydrogen Phosphate (Disodium Phosphate)
63	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
434	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
148	Disodium Succinate
206	Disodium DL-Tartrate (Disodium dl-Tartrate)
207	Disodium L-Tartrate (Disodium l-Tartrate)
66	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
450	Distarch Phosphate
83	Ergocalciferol (Calciferol or Vitamin D2)
81	Erythorbic Acid (Isoascorbic Acid)
68	Ester Gum
69	Esters
80	Ethers
152	Ethyl Acetate
21	Ethyl Acetoacetate
425	Ethyl Butyrate
141	Ethyl Cinnamate
259	<i>Ethyl Decanoate (Ethyl Caprate)</i>
70	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
374	Ethyl Heptanoate (Ethyl Enanthate)
372	Ethyl Hexanoate (Ethyl Caproate)
302	Ethyl p-Hydroxybenzoate
51	Ethyl Isovalerate
74	2-Ethyl-3-methylpyrazine
75	2-Ethyl-5-methylpyrazine
76	2-Ethyl-6-methylpyrazine
77	5-Ethyl-2-methylpyridine
93	Ethyl Octanoate (Ethyl Caprylate)
342	Ethyl Phenylacetate
362	Ethyl Propionate
72	2-Ethylpyrazine

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73	3-Ethylpyridine
71	Ethylvanillin
90	Eugenol
192	Fatty Acids
118	Ferric Ammonium Citrate
87	Ferric Chloride
117	Ferric Citrate
336	Ferric Pyrophosphate
347	Ferrocyanides (Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
129	Ferrous Gluconate (Iron Gluconate)
444	Ferrous Sulfate
356	Fludioxonil
422	Folic Acid
220	Food Blue No.1 (Brilliant Blue FCF) and its Aluminum Lake
221	Food Blue No.2 (Indigo Carmine) and its Aluminum Lake
219	Food Green No.3 (Fast Green FCF) and its Aluminum Lake
210	Food Red No.2 (Amaranth) and its Aluminum Lake
211	Food Red No.3 (Erythrosine) and its Aluminum Lake
212	Food Red No.40 (Allura Red AC) and its Aluminum Lake
213	Food Red No.102 (New Coccine)
214	Food Red No.104 (Phloxine)
215	Food Red No.105 (Rose Bengale)
216	Food Red No.106 (Acid Red)
217	Food Yellow No.4 (Tartrazine) and its Aluminum Lake
218	Food Yellow No.5 (Sunset Yellow FCF) and its Aluminum Lake
354	Fumaric Acid
357	Furfurals and its derivatives (except those generally recognized as highly toxic)
144	Geraniol
154	Geranyl Acetate
107	Geranyl Formate
126	Gluconic Acid
125	Glucono-delta-Lactone (Gluconolactone)
132	L-Glutamic Acid
131	Glutamyl-valyl-glycine
121	Glycerol (Glycerin)
122	Glycerol Esters of Fatty Acids
120	Glycine
370	Hexanoic Acid (Caproic Acid)
373	Hexylamine

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145	High Test Hypochlorite
311	L-Histidine Monohydrochloride
177	Hypobromous Acid Water
89	Hydrochloric Acid
98	Hydrogen Peroxide
316	Hydroxycitronellal
317	Hydroxycitronellal Dimethylacetal
315	1-Hydroxyethylidene-1,1-Diphosphonic Acid
319	Hydroxypropyl Cellulose
318	Hydroxypropyl Distarch Phosphate
321	Hydroxypropyl Methylcellulose
320	Hydroxypropyl Starch
175	Hypochlorous Acid Water
64	Imazalil
65	Indoles and its derivatives
47	Ion Exchange Resin
46	Ionone
293	Iron Lactate
174	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
151	Isoamyl Acetate
48	Isoamylalcohol
424	Isoamyl Butyrate
106	Isoamyl Formate
50	Isoamyl Isovalerate
340	Isoamyl Phenylacetate
361	Isoamyl Propionate
56	Isobutanol
58	Isobutylaldehyde (Isobutanal)
57	Isobutylamine
300	Isobutyl p-Hydroxybenzoate
341	Isobutyl Phenylacetate
49	Isoeugenol
62	L-Isoleucine
61	Isopentylamine
59	Isopropanol
60	Isopropylamine
112	Isopropyl Citrate
301	<i>Isopropyl p-Hydroxybenzoate</i>
52	<i>Isoquinoline</i>
53	Isothiocyanates (except those generally recognized as highly toxic)

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55	Isovaleraldehyde
143	Ketones
290	Lactic Acid
428	Lactones (except those generally recognized as highly toxic)
432	Linalool
166	Linalyl Acetate
429	L-Lysine L-Aspartate
431	L-Lysine L-Glutamate
430	L-Lysine Monohydrochloride
246	Magnesium Carbonate
88	Magnesium Chloride
229	Magnesium Hydroxide
463	Magnesium Monohydrogen Phosphate
173	Magnesium Oxide
139	Magnesium Silicate
232	Magnesium Stearate
446	Magnesium Sulfate
447	DL-Malic Acid (dl-Malic Acid)
397	Maltol
398	D-Mannitol (D-Mannite)
419	dl-Menthol (dl-Peppermint Camphor)
420	l-Menthol (Peppermint Camphor)
165	l-Menthyl Acetate
401	DL-Methionine
402	L-Methionine
305	p-Methylacetophenone
43	Methyl Anthranilate
411	2-Methylbutanol
412	3-Methyl-2-butanol
415	trans-2-Methyl-2-butenal, (E)-2-Methyl-2-butenal
416	3-Methyl-2-butenal
417	3-Methyl-2-butenol
414	2-Methylbutyraldehyde
413	2-Methylbutylamine
407	Methyl Cellulose
142	Methyl Cinnamate
406	5-Methyl-6,7-dihydro-5H-cyclopentapyrazine
418	Methyl Hesperidin (Soluble Vitamin P)
408	1-Methylnaphthalene
403	Methyl N-Methylantranilate

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409	Methyl b-Naphthyl Ketone
410	2-Methypyrazine
405	6-Methylquinoline
404	5-Methylquinoxaline
170	Methyl Salicylate
133	Monoammonium L-Glutamate
135	Monocalcium Di-L-Glutamate
137	Monomagnesium Di-L-Glutamate
114	Monopotassium Citrate and Tripotassium Citrate
134	Monopotassium L-Glutamate
14	Monosodium L-Aspartate
355	Monosodium Fumarate (Sodium Fumarate)
136	Monosodium L-Glutamate
147	Monosodium Succinate
451	Monostarch Phosphate
421	Morpholine Salts of Fatty Acids
280	Natamycin
295	Neotame
283	Nicotinamide (Niacinamide)
282	Nicotinic Acid (Niacin)
279	Nisin
4	Nitrous Oxide
296	g-Nonalactone (Nonalactone)
91	Octanal (Capryl Aldehyde or Octyl Aldehyde)
92	Octanoic Acid
200	Oxalic Acid
172	Oxidized Starch
378	2-Pentanol (sec-Amyl alcohol)
380	trans-2-Pentenal
381	1-Penten-3-ol
379	Pentylamine
97	Peracetic Acid
375	l-Perillaldehyde
162	Phenethyl Acetate (Phenylethyl Acetate)
344	Phenethylamine
345	Phenol Ethers (except those generally recognized as highly toxic)
346	Phenols (except those generally recognized as highly toxic)
339	L-Phenylalanine
95	o-Phenylphenol and Sodium o-Phenylphenate
343	2-(3-Phenylpropyl)pyridine

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465	Phosphated Distarch Phosphate
449	Phosphoric Acid
322	Piperidine
323	Piperonal (Heliotropine)
324	Piperonyl Butoxide
393	Polybutene (Polybutylene)
386	Polyisobutylene (Butyl Rubber)
387	Polysorbate 20
388	Polysorbate 60
389	Polysorbate 65
390	Polysorbate 80
161	Polyvinyl Acetate
392	Polyvinylpyrrolidone
391	Polyvinylpyrrolidone
36	Potassium Alginate
204	Potassium DL-Bitartrate (Potassium Hydrogen DL-Tartrate or Potassium Hydrogen dl-Tartrate)
205	Potassium L-Bitartrate (Potassium Hydrogen L-Tartrate or Potassium Hydrogen d-Tartrate)
201	Potassium Bromate
241	Potassium Carbonate (anhydrous)
85	Potassium Chloride
458	Potassium Dihydrogen Phosphate (Monopotassium Phosphate)
127	Potassium Gluconate
226	Potassium Hydroxide (Caustic Potash)
291	Potassium Lactate
399	Potassium Metaphosphate
208	Potassium Nitrate
297	Potassium Norbixin
394	Potassium Polyphosphate
333	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
330	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
238	Potassium Sorbate
442	Potassium Sulfate
358	Propanol
366	Propiconazole
359	Propionaldehyde
360	Propionic Acid
384	Propyl Gallate
304	<i>Propyl p-Hydroxybenzoate</i>
367	Propylamine
368	Propylene Glycol

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39	Propylene Glycol Alginate
369	Propylene Glycol Esters of Fatty Acids
348	Psicose Epimerase (Allulose Epimerase)
327	Pyrazine
328	Pyridoxine Hydrochloride (Vitamin B6)
329	Pyrimethanil
338	Pyrrole
332	Pyrrolidine
435	Riboflavin (Vitamin B2)
437	<i>Riboflavin 5'-Phosphate Sodium (Riboflavin Phosphate Sodium, Vitamin B2 Phosphate Sodium)</i>
436	<i>Riboflavin Tetrabutyrate (Vitamin B2 Tetrabutyrate)</i>
167	Saccharin
286	Silicon Dioxide (Silica Gel)
223	Silicone Resin (Polydimethylsiloxane)
160	Sodium Acetate
38	Sodium Alginate
11	Sodium L-Ascorbate (Vitamin C Sodium)
42	Sodium Benzoate
244	Sodium Bicarbonate (Bicarbonate Soda or Sodium Hydrogen Carbonate)
245	Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)
103	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)
266	Sodium Carboxymethylstarch
100	Sodium Caseinate
3	Sodium Chlorite
150	Sodium Chondroitin Sulfate
268	Sodium Copper Chlorophyllin
263	<i>Sodium Dehydroacetate</i>
462	Sodium Dihydrogen Phosphate (Monosodium Phosphate)
82	Sodium Erythorbate (Sodium Isoascorbate)
116	Sodium Ferrous Citrate (Sodium Iron Citrate)
130	Sodium Gluconate
178	Sodium Hydrosulfite (Hydrosulfite)
228	Sodium Hydroxide (Caustic Soda)
176	Sodium Hypochlorite (Hypochlorite of Soda)
260	Sodium Iron Chlorophyllin
294	Sodium Lactate
448	Sodium DL-Malate (Sodium dl-Malate)
400	Sodium Metaphosphate
281	Sodium Methoxide (Sodium Methylate)
209	Sodium Nitrate

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6	Sodium Nitrite
298	Sodium Norbixin
96	Sodium Oleate
309	Sodium Pantothenate
385	Sodium Polyacrylate
395	Sodium Polyphosphate
364	Sodium Propionate
337	Sodium Pyrophosphate (Tetrasodium Pyrophosphate)
331	Sodium Pyrosulfite (Sodium Metabisulfite, Acid Sulfite of Soda)
169	Sodium Saccharin (Soluble Saccharin)
24	Sodium selenite
234	Sodium Stearoyl Lactylate
445	Sodium Sulfate
33	Sodium Sulfite
237	Sorbic Acid
235	Sorbitan Esters of Fatty Acids
236	D-Sorbitol (D-Sorbit)
159	Starch Acetate
94	Starch Sodium Octenyl Succinate
146	Succinic Acid
230	Sucralose (Trichlorogalactosucrose)
222	Sucrose Esters of Fatty Acids
284	Sulfur Dioxide (Sulfurous Acid, Anhydride)
438	<i>Sulfuric Acid</i>
325	Sunflower Lecithin
202	DL-Tartaric Acid (dl-Tartaric Acid)
203	L-Tartaric Acid (d-Tartaric Acid)
265	Terpene Hydrocarbons
264	Terpineol
158	Terpinyl Acetate
261	5,6,7,8-Tetrahydroquinoxaline
262	2,3,5,6-Tetramethylpyrazine
256	<i>L-Theanine</i>
247	Thiabendazole
250	Thiamine Dicetylsulfate (Vitamin B1 Dicetylsulfate)
253	Thiamine Dilaurylsulfate (Vitamin B1 Dilaurylsulfate)
248	Thiamine Hydrochloride (Vitamin B1 Hydrochloride)
249	Thiamine Mononitrate (Vitamin B1 Mononitrate)
252	Thiamine Naphthalene-1,5-Disulfonate (Vitamin B1 Naphthalene-1,5-Disulfonate)
251	Thiamine Thiocyanate (Vitamin B1 Thiocyanate)

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254	<i>Thioethers (except those generally recognized as highly toxic)</i>
255	<i>Thiols (Thioalcohols) (except those generally recognized as highly toxic)</i>
277	DL-Threonine
278	L-Threonine
288	Titanium Dioxide
270	dl- α -Tocopherol
271	all-rac- α -Tocopheryl Acetate
272	R,R,R- α -Tocopheryl Acetate
453	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
113	Triethyl Citrate
454	Trimagnesium Phosphate
275	Trimethylamine
276	2,3,5-Trimethylpyrazine
452	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
119	Trisodium Citrate (Sodium Citrate)
464	Trisodium Phosphate (Sodium Phosphate, Tribasic)
273	DL-Tryptophan
274	L-Tryptophan
67	γ -Undecalactone (Undecalactone)
307	Valeraldehyde
306	L-Valine
299	Vanillin
313	Vitamin A (Retinol)
314	Vitamin A Fatty Acids Esters (Retinol Esters of Fatty Acids Esters)
109	Xylitol
1	Zinc salts (limited to Zinc Gluconate and Zinc Sulfate)