

## 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 474 in total as of October 26, 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
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
379	Allyl Hexanoate (Allyl Caproate)
55	Allyl Isothiocyanate (Volatile Oil of Mustard)
448	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Dried: Burnt Ammonium Alum)
449	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
465	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic)
33	Ammonium Hydrogen Sulfite Water
46	Ammonium Isovalerate
102	Ammonium Persulfate
450	Ammonium Sulfate
30	Amyl alcohol
31	$\alpha$ -Amylcinnamaldehyde ( $\alpha$ -Amylcinnamic Aldehyde)
27	Anisaldehyde ( <i>p</i> -Methoxybenzaldehyde)
28	$\beta$ -Apo-8'-carotenal
35	L-Arginine L-Glutamate
41	Argon
390	Aromatic Alcohols
391	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- $\alpha$ -Aspartyl-L-phenylalanine Methyl Ester)
25	Azoxystrobin
385	Benzaldehyde
42	Benzoic Acid
100	Benzoyl Peroxide
166	Benzyl Acetate
384	Benzyl Alcohol
373	Benzyl Propionate
317	Biotin
319	Bisbentiamine (Benzoylthiamine Disulfide)
404	<i>d</i> -Borneol
357	Butanol
165	Butyl Acetate
358	Butylamine
359	<i>sec</i> -Butylamine
436	Butyl Butyrate
310	Butyl <i>p</i> -Hydroxybenzoate
361	Butylated Hydroxyanisole
192	Butylated Hydroxytoluene
360	Butyraldehyde
432	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
469	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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468	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
173	Calcium Oxide
315	Calcium Pantothenate
371	Calcium Propionate
442	Calcium 5'-Ribonucleotide
170	Calcium Saccharin
140	Calcium Silicate
245	Calcium Sorbate
237	Calcium Stearate
239	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
452	Calcium Sulfate
209	Calcium L-Tartrate (Calcium <i>d</i> -Tartrate)
106	Canthaxanthin
294	Carbon Dioxide (Carbonic Acid Gas)
105	$\beta$ -Carotene
111	Chitin-Glucan
292	Chlorine Dioxide
2	Chlorous Acid Water
151	Cholecalciferol (Vitamin D <sub>3</sub> )
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
435	Cyclohexyl Butyrate
184	L-Cystein Monohydrochloride
264	Decanal (Decyl Aldehyde)
265	Decanol (Decyl Alcohol)
464	Diammonium Hydrogen Phosphate (Ammonium Phosphate, Dibasic)

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193	Dibenzoyl Thiamine
194	Dibenzoyl Thiamine Hydrochloride
182	2,3-Diethyl-5-methylpyrazine
181	2,3-Diethylpyrazine
191	Difenoconazole
296	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)
466	Dipotassium Hydrogen Phosphate (Potassium Phosphate, Dibasic)
208	Dipotassium L-Tartrate (Dipotassium <i>d</i> -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)
470	Disodium Hydrogen Phosphate (Disodium Phosphate)
64	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
443	Disodium 5'-Ribonucleotide (Sodium 5'-Ribonucleotide)
150	Disodium Succinate
212	Disodium DL-Tartrate (Disodium <i>d,l</i> -Tartrate)
213	Disodium L-Tartrate (Disodium <i>d</i> -Tartrate)
67	Disodium 5'-Uridylate (Sodium 5'-Uridylate)
459	Distarch Phosphate
84	Ergocalciferol (Calciferol or Vitamin D <sub>2</sub> )
82	Erythorbic Acid (Isoascorbic Acid)
69	Ester Gum
70	Esters
81	Ethers
154	Ethyl Acetate
21	Ethyl Acetoacetate
434	Ethyl Butyrate
143	Ethyl Cinnamate
266	Ethyl Decanoate (Ethyl Caprate)
71	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
382	Ethyl Heptanoate (Ethyl Enanthate)

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380	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)
350	Ethyl Phenylacetate
370	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
355	Ferrocyanides (limited to Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), and Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
131	Ferrous Gluconate (Iron Gluconate)
453	Ferrous Sulfate
364	Fludioxonil
431	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
362	Fumaric Acid
365	Furfurals and its derivatives (except those generally recognized as highly toxic)

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146	Geraniol
156	Geranyl Acetate
108	Geranyl Formate
128	Gluconic Acid
127	Glucono- $\delta$ -Lactone (Gluconolactone)
134	L-Glutamic Acid
133	Glutamyl-valyl-glycine
123	Glycerol (Glycerin)
124	Glycerol Esters of Fatty Acids
122	Glycine
378	Hexanoic Acid (Caproic Acid)
381	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
433	Isoamyl Butyrate
107	Isoamyl Formate
51	Isoamyl Isovalerate
348	Isoamyl Phenylacetate
369	Isoamyl Propionate
57	Isobutanol

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59	Isobutylaldehyde (Isobutanal)
58	Isobutylamine
307	Isobutyl <i>p</i> -Hydroxybenzoate
349	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
437	Lactones (except those generally recognized as highly toxic)
441	Linalool
168	Linalyl Acetate
438	L-Lysine L-Aspartate
440	L-Lysine L-Glutamate
439	L-Lysine Monohydrochloride
253	Magnesium Carbonate
89	Magnesium Chloride
235	Magnesium Hydroxide
472	Magnesium Monohydrogen Phosphate
175	Magnesium Oxide
141	Magnesium Silicate
238	Magnesium Stearate
455	Magnesium Sulfate
456	DL-Malic Acid ( <i>d</i> / <i>l</i> -Malic Acid)
405	Maltol
406	D-Mannitol (D-Mannite)
428	<i>d</i> / <i>l</i> -Menthol ( <i>d</i> / <i>l</i> -Peppermint Camphor)
429	<i>l</i> -Menthol (Peppermint Camphor)
167	<i>l</i> -Menthyl Acetate
407	Metatartaric Acid
410	DL-Methionine
411	L-Methionine

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312	<i>p</i> -Methylacetophenone
44	Methyl Anthranilate
420	2-Methylbutanol
421	3-Methyl-2-butanol
424	<i>trans</i> -2-Methyl-2-butenal
425	3-Methyl-2-butenal
426	3-Methyl-2-butenol
423	2-Methylbutyraldehyde
422	2-Methylbutylamine
416	Methyl Cellulose
144	Methyl Cinnamate
415	5-Methyl-6,7-dihydro-5 <i>H</i> -cyclopentapyrazine
427	Methyl Hesperidin (Soluble Vitamin P)
417	1-Methylnaphthalene
412	Methyl N-Methylantranilate
418	Methyl $\beta$ -Naphthyl Ketone
419	2-Methypyrazine
414	6-Methylquinoline
413	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
363	Monosodium Fumarate (Sodium Fumarate)
138	Monosodium L-Glutamate
149	Monosodium Succinate
460	Monostarch Phosphate
430	Morpholine Salts of Fatty Acids
287	Natamycin (Pimaricin)
302	Neotame
290	Nicotinamide (Niacinamide)
289	Nicotinic Acid (Niacin)
286	Nisin
4	Nitrous Oxide
303	$\gamma$ -Nonalactone (Nonalactone)
92	Octanal (Caprylic Aldehyde or Octyl Aldehyde)



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93	Octanoic Acid
203	Oxalic Acid
174	Oxidized Starch
386	2-Pentanol ( <i>sec</i> -Amyl alcohol)
388	<i>trans</i> -2-Pentenal
389	1-Penten-3-ol
387	Pentylamine
98	Peracetic Acid
383	/-Perillaldehyde
164	Phenethyl Acetate (Phenylethyl Acetate)
352	Phenethylamine
353	Phenol Ethers (except those generally recognized as highly toxic)
354	Phenols (except those generally recognized as highly toxic)
347	L-Phenylalanine
96	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
351	2-(3-Phenylpropyl)pyridine
474	Phosphated Distarch Phosphate
458	Phosphoric Acid
330	Piperidine
331	Piperonal (Heliotropine)
332	Piperonyl Butoxide
401	Polybutene (Polybutylene)
394	Polyisobutylene (Butyl Rubber)
395	Polysorbate 20
396	Polysorbate 60
397	Polysorbate 65
398	Polysorbate 80
163	Polyvinyl Acetate
400	Polyvinylpyrrolidone
399	Polyvinylpyrrolidone
37	Potassium Alginate
210	Potassium DL-Bitartrate (Potassium Hydrogen <i>d</i> /-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
467	Potassium Dihydrogen Phosphate (Potassium Phosphate, Monobasic)
129	Potassium Gluconate
250	Potassium Hydrogen Carbonate (Potassium Bicarbonate or Potassium Acid Carbonate)

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232	Potassium Hydroxide (Caustic Potash)
298	Potassium Lactate
408	Potassium Metaphosphate
214	Potassium Nitrate
304	Potassium Norbixin
402	Potassium Polyphosphate
341	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
338	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
244	Potassium Sorbate
451	Potassium Sulfate
366	Propanol
374	Propiconazole
367	Propionaldehyde
368	Propionic Acid
392	Propyl Gallate
311	Propyl <i>p</i> -Hydroxybenzoate
375	Propylamine
376	Propylene Glycol
40	Propylene Glycol Alginate
377	Propylene Glycol Esters of Fatty Acids
356	Psicose Epimerase (Allulose Epimerase)
335	Pyrazine
336	Pyridoxine Hydrochloride (Vitamin B <sub>6</sub> )
337	Pyrimethanil
346	Pyrrole
340	Pyrrolidine
444	Riboflavin (Vitamin B <sub>2</sub> )
446	Riboflavin 5'-Phosphate Sodium (Sodium Riboflavin Phosphate or Sodium Vitamin B <sub>2</sub> Phosphate)
445	Riboflavin Tetrabutyrates (Vitamin B <sub>2</sub> 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)
104	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)

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273	Sodium Carboxymethylstarch
101	Sodium Caseinate
3	Sodium Chlorite
152	Sodium Chondroitin Sulfate
275	Sodium Copper Chlorophyllin
270	Sodium Dehydroacetate
471	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
457	Sodium DL-Malate (Sodium <i>d</i> /-Malate)
409	Sodium Metaphosphate
288	Sodium Methoxide (Sodium Methylate)
215	Sodium Nitrate
6	Sodium Nitrite
305	Sodium Norbixin
97	Sodium Oleate
316	Sodium Pantothenate
393	Sodium Polyacrylate
403	Sodium Polyphosphate
372	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
454	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
148	Succinic Acid

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236	Sucralose (Trichlorogalactosucrose)
228	Sucrose Esters of Fatty Acids
291	Sulfur Dioxide (Sulfurous Acid Anhydride)
447	Sulfuric Acid
333	Sunflower Lecithin
205	DL-Tartaric Acid ( <i>d</i> l-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 <sub>1</sub> Dicetylsulfate)
260	Thiamine Dilaurylsulfate (Vitamin B <sub>1</sub> Dilaurylsulfate)
255	Thiamine Hydrochloride (Vitamin B <sub>1</sub> Hydrochloride)
256	Thiamine Mononitrate (Vitamin B <sub>1</sub> Mononitrate)
259	Thiamine Naphthalene-1,5-disulfonate (Vitamin B <sub>1</sub> Naphthalene-1,5-disulfonate)
258	Thiamine Thiocyanate (Vitamin B <sub>1</sub> 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> l- $\alpha$ -Tocopherol
278	All- <i>rac</i> - $\alpha$ -Tocopheryl Acetate
279	<i>R,R,R</i> - $\alpha$ -Tocopheryl Acetate
462	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
115	Triethyl Citrate
463	Trimagnesium Phosphate (Magnesium Phosphate, Tribasic)
282	Trimethylamine
283	2,3,5-Trimethylpyrazine
461	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
121	Trisodium Citrate (Sodium Citrate)
473	Trisodium Phosphate (Sodium Phosphate, Tribasic)
280	DL-Tryptophan
281	L-Tryptophan
68	$\gamma$ -Undecalactone (Undecalactone)

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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)