

## 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 472 in total as of January 15, 2021. 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
332	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
377	Allyl Hexanoate (Allyl Caproate)
55	Allyl Isothiocyanate (Volatile Oil of Mustard)
446	Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Dried: Burnt Ammonium Alum)
447	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
463	Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic)
33	Ammonium Hydrogen Sulfite Water
46	Ammonium Isovalerate
102	Ammonium Persulfate
448	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
388	Aromatic Alcohols
389	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
383	Benzaldehyde
42	Benzoic Acid
100	Benzoyl Peroxide
166	Benzyl Acetate
382	Benzyl Alcohol
371	Benzyl Propionate
315	Biotin
317	Bisbentiamine (Benzoylthiamine Disulfide)
402	<i>d</i> -Borneol
355	Butanol
165	Butyl Acetate
356	Butylamine
357	<i>sec</i> -Butylamine
434	Butyl Butyrate
308	Butyl <i>p</i> -Hydroxybenzoate
359	Butylated Hydroxyanisole
192	Butylated Hydroxytoluene
358	Butyraldehyde
430	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
467	Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)
340	Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)
79	Calcium Disodium Ethylenediaminetetraacetate (Calcium Disodium EDTA)
130	Calcium Gluconate
125	Calcium Glycerophosphate
232	Calcium Hydroxide (Slaked Lime)
297	Calcium Lactate

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466	Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)
173	Calcium Oxide
313	Calcium Pantothenate
369	Calcium Propionate
440	Calcium 5'-Ribonucleotide
170	Calcium Saccharin
140	Calcium Silicate
244	Calcium Sorbate
236	Calcium Stearate
238	Calcium Stearoyl Lactylate (Calcium Stearyl Lactylate)
450	Calcium Sulfate
106	Canthaxanthin
292	Carbon Dioxide (Carbonic Acid Gas)
105	$\beta$ -Carotene
111	Chitin-Glucan
290	Chlorine Dioxide
2	Chlorous Acid Water
151	Cholecalciferol (Vitamin D <sub>3</sub> )
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
327	Copolymer of Vinylimidazole/Vinylpyrrolidone (PVI/PVP)
274	Copper Chlorophyll
272	Copper salts (limited to Copper Gluconate and Cupric Sulfate)
157	Cyclohexyl Acetate
433	Cyclohexyl Butyrate
184	L-Cystein Monohydrochloride
262	Decanal (Decyl Aldehyde)
263	Decanol (Decyl Alcohol)
462	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
294	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)
464	Dipotassium Hydrogen Phosphate (Potassium Phosphate, Dibasic)
208	Dipotassium L-Tartrate (Dipotassium <i>d</i> '-Tartrate)
185	Disodium 5'-Cytidylate (Sodium 5'-Cytidylate)
341	Disodium Dihydrogen Pyrophosphate (Acid Disodium Pyrophosphate)
80	Disodium Ethylenediaminetetraacetate (Disodium EDTA)
126	Disodium Glycyrrhizinate
112	Disodium 5'-Guanylate (Sodium 5'-Guanylate)
468	Disodium Hydrogen Phosphate (Disodium Phosphate)
64	Disodium 5'-Inosinate (Sodium 5'-Inosinate)
441	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)
457	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
432	Ethyl Butyrate
143	Ethyl Cinnamate
264	Ethyl Decanoate (Ethyl Caprate)
71	Mixture of 2-Ethyl-3,5-dimethylpyrazine and 2-Ethyl-3,6-dimethylpyrazine
380	Ethyl Heptanoate (Ethyl Enanthate)
378	Ethyl Hexanoate (Ethyl Caproate)

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307	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)
348	Ethyl Phenylacetate
368	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
342	Ferric Pyrophosphate
353	Ferrocyanides (limited to Potassium Ferrocyanide (Potassium Hexacyanoferrate(II)), Calcium Ferrocyanide (Calcium Hexacyanoferrate(II)), and Sodium Ferrocyanide (Sodium Hexacyanoferrate(II)))
131	Ferrous Gluconate (Iron Gluconate)
451	Ferrous Sulfate
362	Fludioxonil
429	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
360	Fumaric Acid
363	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- $\delta$ -Lactone (Gluconolactone)
134	L-Glutamic Acid
133	Glutamyl-valyl-glycine
123	Glycerol (Glycerin)
124	Glycerol Esters of Fatty Acids
122	Glycine
376	Hexanoic Acid (Caproic Acid)
379	Hexylamine
147	High-Test Hypochlorite
316	L-Histidine Monohydrochloride
179	Hypobromous Acid Water
90	Hydrochloric Acid
99	Hydrogen Peroxide
321	Hydroxycitronellal
322	Hydroxycitronellal Dimethylacetal
320	1-Hydroxyethylidene-1,1-Diphosphonic Acid
324	Hydroxypropyl Cellulose
323	Hydroxypropyl Distarch Phosphate
326	Hydroxypropyl Methylcellulose
325	Hydroxypropyl Starch
177	Hypochlorous Acid Water
65	Imazalil
66	Indoles and its derivatives
48	Ion Exchange Resin
47	Ionone
298	Iron Lactate
176	Iron Sesquioxide (Diiron Trioxide or Iron Oxide Red)
153	Isoamyl Acetate
49	Isoamyl Alcohol
431	Isoamyl Butyrate
107	Isoamyl Formate
51	Isoamyl Isovalerate
346	Isoamyl Phenylacetate
367	Isoamyl Propionate
57	Isobutanol
59	Isobutylaldehyde (Isobutanal)

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

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



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203	Oxalic Acid
174	Oxidized Starch
384	2-Pentanol ( <i>sec</i> -Amyl alcohol)
386	<i>trans</i> -2-Pentenal
387	1-Penten-3-ol
385	Pentylamine
98	Peracetic Acid
381	<i>l</i> -Perillaldehyde
164	Phenethyl Acetate (Phenylethyl Acetate)
350	Phenethylamine
351	Phenol Ethers (except those generally recognized as highly toxic)
352	Phenols (except those generally recognized as highly toxic)
345	L-Phenylalanine
96	<i>o</i> -Phenylphenol and Sodium <i>o</i> -Phenylphenate
349	2-(3-Phenylpropyl)pyridine
472	Phosphated Distarch Phosphate
456	Phosphoric Acid
328	Piperidine
329	Piperonal (Heliotropine)
330	Piperonyl Butoxide
399	Polybutene (Polybutylene)
392	Polyisobutylene (Butyl Rubber)
393	Polysorbate 20
394	Polysorbate 60
395	Polysorbate 65
396	Polysorbate 80
163	Polyvinyl Acetate
398	Polyvinylpyrrolidone
397	Polyvinylpyrrolidone
37	Potassium Alginate
209	Potassium DL-Bitartrate (Potassium Hydrogen <i>d/l</i> -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
465	Potassium Dihydrogen Phosphate (Potassium Phosphate, Monobasic)
129	Potassium Gluconate
231	Potassium Hydroxide (Caustic Potash)
296	Potassium Lactate

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406	Potassium Metaphosphate
213	Potassium Nitrate
302	Potassium Norbixin
400	Potassium Polyphosphate
339	Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)
336	Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)
243	Potassium Sorbate
449	Potassium Sulfate
364	Propanol
372	Propiconazole
365	Propionaldehyde
366	Propionic Acid
390	Propyl Gallate
309	Propyl <i>p</i> -Hydroxybenzoate
373	Propylamine
374	Propylene Glycol
40	Propylene Glycol Alginate
375	Propylene Glycol Esters of Fatty Acids
354	Psicose Epimerase (Allulose Epimerase)
333	Pyrazine
334	Pyridoxine Hydrochloride (Vitamin B <sub>6</sub> )
335	Pyrimethanil
344	Pyrrole
338	Pyrrolidine
442	Riboflavin (Vitamin B <sub>2</sub> )
444	Riboflavin 5'-Phosphate Sodium (Sodium Riboflavin Phosphate or Sodium Vitamin B <sub>2</sub> Phosphate)
443	Riboflavin Tetrabutryate (Vitamin B <sub>2</sub> Tetrabutryate)
169	Saccharin
291	Silicon Dioxide (Silica Gel)
228	Silicone Resin (Polydimethylsiloxane)
162	Sodium Acetate
39	Sodium Alginate
11	Sodium L-Ascorbate (Vitamin C Sodium)
43	Sodium Benzoate
249	Sodium Bicarbonate (Sodium Hydrogen Carbonate or Bicarbonate Soda)
250	Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)
104	Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)
271	Sodium Carboxymethylstarch
101	Sodium Caseinate

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3	Sodium Chlorite
152	Sodium Chondroitin Sulfate
273	Sodium Copper Chlorophyllin
268	Sodium Dehydroacetate
469	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)
265	Sodium Iron Chlorophyllin
299	Sodium Lactate
455	Sodium DL-Malate (Sodium <i>d</i> l-Malate)
407	Sodium Metaphosphate
286	Sodium Methoxide (Sodium Methylate)
214	Sodium Nitrate
6	Sodium Nitrite
303	Sodium Norbixin
97	Sodium Oleate
314	Sodium Pantothenate
391	Sodium Polyacrylate
401	Sodium Polyphosphate
370	Sodium Propionate
343	Sodium Pyrophosphate (Tetrasodium Pyrophosphate )
337	Sodium Pyrosulfite (Sodium Metabisulfite or Acid Sulfite of Soda)
171	Sodium Saccharin (Soluble Saccharin)
24	Sodium Selenite
239	Sodium Stearoyl Lactylate
452	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)
227	Sucrose Esters of Fatty Acids

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289	Sulfur Dioxide (Sulfurous Acid Anhydride)
445	Sulfuric Acid
331	Sunflower Lecithin
205	DL-Tartaric Acid ( <i>dl</i> -Tartaric Acid)
206	L-Tartaric Acid ( <i>d</i> -Tartaric Acid)
270	Terpene Hydrocarbons
269	Terpineol
160	Terpinyl Acetate
266	5,6,7,8-Tetrahydroquinoxaline
267	2,3,5,6-Tetramethylpyrazine
261	L-Theanine
252	Thiabendazole
255	Thiamine Dicetylsulfate (Vitamin B <sub>1</sub> Dicetylsulfate)
258	Thiamine Dilaurylsulfate (Vitamin B <sub>1</sub> Dilaurylsulfate)
253	Thiamine Hydrochloride (Vitamin B <sub>1</sub> Hydrochloride)
254	Thiamine Mononitrate (Vitamin B <sub>1</sub> Mononitrate)
257	Thiamine Naphthalene-1,5-disulfonate (Vitamin B <sub>1</sub> Naphthalene-1,5-disulfonate)
256	Thiamine Thiocyanate (Vitamin B <sub>1</sub> Thiocyanate)
259	Thioethers (except those generally recognized as highly toxic)
260	Thiols (Thioalcohols) (except those generally recognized as highly toxic)
282	DL-Threonine
283	L-Threonine
293	Titanium Dioxide
275	<i>dl</i> - $\alpha$ -Tocopherol
276	All- <i>rac</i> - $\alpha$ -Tocopheryl Acetate
277	<i>R,R,R</i> - $\alpha$ -Tocopheryl Acetate
460	Tricalcium Phosphate (Calcium Phosphate, Tribasic)
115	Triethyl Citrate
461	Trimagnesium Phosphate (Magnesium Phosphate, Tribasic)
280	Trimethylamine
281	2,3,5-Trimethylpyrazine
459	Tripotassium Phosphate (Potassium Phosphate, Tribasic)
121	Trisodium Citrate (Sodium Citrate)
471	Trisodium Phosphate (Sodium Phosphate, Tribasic)
278	DL-Tryptophan
279	L-Tryptophan
68	$\gamma$ -Undecalactone (Undecalactone)
312	Valeraldehyde
311	L-Valine

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304	Vanillin
318	Vitamin A (Retinol)
319	Vitamin A Esters of Fatty Acids (Retinol Fatty Acids Esters)
110	Xylitol
1	Zinc salts (limited to Zinc Gluconate and Zinc Sulfate)