

Compounds Approved as GRAS or on FSIS Directive 7120.1

Compound	FSIS 7120.1	US-GRAS	Japan Designated	Japan Existing
1-hydroxyethylidene-1,1-diphosphonic acid (HEDP)	x		x	
Acetic Acid	x	x	x	
Acetylated Distarch Adipate		x	x	
Acetylated Distarch Phosphate		x	x	
Activated charcoal (activated carbon)	x			x
Adenosine 5'-monophosphoric acid (AMP) (5'-Adenylic acid)	x			x
Adipic Acid		x	x	
Algal oil	x			
Alkyl polyglycosides	x			
all-rac- α -Tocopheryl Acetate		x	x	
Aluminum Ammonium Sulfate (Crystal: Ammonium Alum, Desiccated: Burnt Ammonium Alum)		x	x	
Aluminum Potassium Sulfate (Crystal: Alum or Potassium Alum, Desiccated: Burnt Alum)		x	x	
ammonium	x			
Ammonium Alginate		x	x	
Ammonium Bicarbonate (Ammonium Hydrogen Carbonate)		x	x	
Ammonium Carbonate		x	x	
Ammonium Chloride		x	x	
Ammonium Dihydrogen Phosphate (Ammonium Phosphate, Monobasic or Monoammonium Phosphate)		x	x	
Ammonium hydroxide	x	x		
Ammonium Sulfate		x	x	
Anhydrous ammonia	x		x	
Annatto powder	x			x
Bacteria cultures (of any kind)	x			
Bacteriophages (of any kind)	x			
Barley fiber	x			
Beef collagen	x		o	o
Beef protein	x		o	o
Bees wax		x		x
Bentonite		x		x
benzoic acid	x	x	x	
BHA (butylated hydroxyanisole)	x	x	\	
BHT (butylated hydroxytoluene)	x	x	\	
Biotin (Vitamin B7)		x	x	
Caffeine (extract)		x		x
Calcium Alginate		x	x	
Calcium carbonate	x	x	x	
Calcium chloride	x	x	x	
Calcium citrate	x	x	x	
Calcium Dihydrogen Phosphate (Calcium Phosphate, Monobasic)		x	x	
Calcium Dihydrogen Pyrophosphate (Acid Calcium Pyrophosphate)		x	x	
Calcium Gluconate		x	x	
Calcium Glycerophosphate		x	x	
Calcium Hydroxide (Slaked Lime)	x	x	x	
Calcium hypochlorite	x			

Calcium Lactate		x	x	
Calcium L-Ascorbate		x	x	
Calcium Monohydrogen Phosphate (Calcium Phosphate, Dibasic)		x	x	
Calcium Pantothenate		x	x	
Calcium Silicate		x	x	
Calcium Sorbate		x	x	
Calcium Stearate		x	x	
Calcium sulfate	x		x	
Canola Protein (CPI)	x			
Caramel I (plain)		x		x
Carbon Dioxide (Carbonic Acid, Gas)	x	x	x	
Carbon monoxide	x			
Carboxymethyl cellulose (cellulose gum)	x	x		
Carboxypeptidase enzyme	x			x
Carmine (cochineal)	x			
Carnauba wax, Brazil wax		x		x
Carob bean gum, Locust bean gum		x		x
Carrageenan	x	x		x
Carrot carotene		x		x
Carrot fiber	x			
Chlorine dioxide	x			x
Chlorine gas	x			
Cholecalciferol (Vitamin D3)			x	
Choline chloride	x	x		
Citric acid	x	x	x	
Citroglycerides	x			
Citrus fiber	x			
Clove extract		x		x
Copper Gluconate		x	x	
Corn bran fiber	x			
Corn starch	x			
Crude magnesium chloride (sea water)		x		x
Crude potassium chloride (sea water)		x		x
Cultured dextrose	x			
Cultured skim milk	x			
Cultured sugar	x			
Cyanocobalamin, Vitamin B12		x		x
DATEM (diacetyl tartaric acid esters of mono- and di-glycerides)	x			
DBDMH (1,3-dibromo-5,5-dimethyldantoin) Listed as Hypobromous acid water	x		x	
Dextran		x		x
Dextrose	x	x	o	o
Diacylglycerol oil	x			
Diatomaceous earth		x		x
Dicalcium phosphate	x			
Dimethylpolysiloxane (methyl polysilicone)	x			
Dipicolinic acid (DPA)	x			
Distarch Phosphate		x	x	
DL-Malic Acid (dl -Malic Acid)		x	x	
DL-Tartaric Acid (dl -Tartaric Acid)		x	x	
dl- α -Tocopherol		x	x	
D-Mannitol (D-Mannite)		x	x	
D-Sorbitol (D-Sorbit)		x	x	

d- α -Tocopherol		x		x
d- γ -Tocopherol		x		x
d- δ -Tocopherol		x		x
Egg white lysozyme	x			
Encapsulated sodium diacetate	x			
Ergocalciferol (Calciferol or Vitamin D2)		x	x	
Erythorbic Acid (Isoascorbic Acid)	x	x	x	
Ferric Ammonium Citrate		x	x	
Ferric Chloride		x	x	
Ferric Citrate		x	x	
Ferric Pyrophosphate		x	x	
Ferrous Sulfate		x	x	
Fish oil concentrate	x			
Fish scale foil		x		x
Gallic acid		x		x
Garlic extract		x		
Gelatin spice sheets	x			
Glucono-delta-Lactone (Gluconolactone)	x		x	
Glucose oxidase	x			x
Glycerol (Glycerin)	x	x	x	
Glycerophospholipid cholesterol acyltransferase (GCAT)	x			
Grapefruit seed extract	x			x
Guar gum	x	x		x
Guar powder	x			
Gum Arabic, Arabic gum, Acacia gum		x		x
Gum ghatti		x		x
Helium		x		x
Hops beta acids	x			
Hydrochloric acid	x	x	x	
Hydrogen peroxide (HP)	x	x	x	
Hydrolized Canola Protein (HCPI)	x			
Hydrolyzed gelatin	x			
Hydroxypropyl Distarch Phosphate		x	x	
Hydroxypropyl methylcellulose	x	x	x	
Hydroxypropyl Starch		x	x	
Hypobromous acid	x			
Hypochlorous acid	x			
Inositol		x		x
Inulin	x			
Invert sugar	x	x		
Iron		x		x
Japan wax		x		x
Kaolin		x		x
Karaya gum		x		x
Konjac flour	x			
Lactic acid	x	x	x	
Lactoferrin	x			
Laminaria japonica (brown algae)	x			
L-Arginine	x			x
L-Ascorbic Acid (Vitamin C)	x	x	x	
Lauramide arginine ethyl ester (LAE)	x			
Lemon extract	x			
L-glutamic acid	x	x	x	
Licorice extract		x		x
L-lysine	x			x

Long chain triglycerides	x			
L-Sorbose		x		
L-Tartaric Acid (<i>d</i> -Tartaric Acid)		x	x	
Magnesium carbonate	x	x	x	
Malic acid	x	x		
Maltodextrin	x		o	o
Maltose	x			
Medium chain triglycerides	x			
Methylcellulose	x	x	x	
Microcrystalline cellulose	x	x		x
Mixed tocopherols		x		x
Modified food starch (acetylated distarch adipate)	x		x	
mono- and di-glycerides	x			
Monoammonium L-Glutamate		x	x	
Monopotassium L-Glutamate		x	x	
Monosodium L-Glutamate		x	x	
Monostarch Phosphate		x	x	
MPEs (Meat Protein Extracts)	x			
Nickel		x		x
Nicotinamide (Niacinamide)		x	/	
Nicotinic Acid (Niacin)		x	/	
Nisin	x		x	
Nitrogen gas	x			
Oat fiber	x			
Oat hull fiber	x			
Octanoic acid	x		x	
Oleoresin black pepper	x			
Orange pulp	x			
Oregano extract	x			x
Ozone	x			x
Papain		x		x
Pea fiber	x	x		
Pea protein proteolysate	x			
Pectin	x	x		x
Perlite		x		x
Peroxyacetic acid (PAA)	x		x	
Phosphated Distarch Phosphate		x	x	
Phosphoric acid	x	x	x	
Plum extract	x			
Plum fiber	x			
Plum powder	x			
Plum puree	x			
Polyglycerol ester	x			
Polyglycerol polyricinolein acid (PGPR)	x			
Polysorbate 20, 60, 65, 80	x		x	
Pork Collagen	x		o	o
Pork protein	x		o	o
Pork skin proteins	x		o	o
Potassium acetate	x			
Potassium Alginate		x	x	
Potassium bicarbonate	x	x		
Potassium Carbonate (anhydrous)	x	x	x	
Potassium chloride	x	x	x	
Potassium citrate	x	x		
Potassium diacetate	x			

Potassium diphosphate	x			
Potassium erythorbate	x			
Potassium Gluconate		x	x	
Potassium Hydroxide (Caustic Potash)	x	x	x	
Potassium magnesium chloride	x			
Potassium Octanoate	x			
Potassium propionate	x			
Potassium Pyrophosphate (Tetrapotassium Pyrophosphate)		x	x	
Potassium Pyrosulfite (Potassium Hydrogen Sulfite or Potassium Metabisulfite)		x	x	
Potassium sorbate	x	x	x	
Potassium triphosphate	x	x		
Potato fiber	x			
Potato protein isolate	x			
Potato starch	x	x		
Powdered sugar	x			
Propionic acid	x	x	x	
Propylene glycol	x	x	x	
Propylene Glycol Alginate		x	x	
Propylene Glycol Esters of Fatty Acids		x	x	
Psyllium husk	x			
Pyridoxine Hydrochloride (Vitamin B6)		x	x	
R,R,R- α -Tocopheryl Acetate		x	x	
Refined sea salt	x			
Rennet		x		x
Riboflavin (Vitamin B2)		x	x	
Rice bran	x			
Rice bran extract	x			
Rice protein	x			
Rice starch	x	x		
Rosemary extract	x			x
Salmon oil	x			
Salt	x			
Silicon Dioxide (Silica Gel)	x	x	x	
Smoke flavourings	x			x
Sodium acetate	x	x	x	
Sodium alginate	x	x	x	
Sodium benzoate	x	x	x	
Sodium Bicarbonate (Bicarbonate Soda or Sodium Hydrogen Carbonate)	x	x	x	
Sodium bisulfate	x			
Sodium Carbonate (Crystal: Carbonate Soda, Anhydrous: Soda Ash)	x	x	x	
Sodium Carboxymethylcellulose (Sodium Cellulose Glycolate)	x	x	x	
Sodium Caseinate		x	x	
Sodium chloride-decreased brine (saline lake)	x	x		x
Sodium chlorite	x		x	
Sodium citrate	x	x	x	
Sodium diacetate	x	x	Δ	
Sodium diphosphates	x			
Sodium Erythorbate (Sodium Isoascorbate)	x	x	x	
Sodium ferrocyanide	x			
Sodium Gluconate	x	x	x	

Sodium hexametaphosphate	x	x		
Sodium Hydroxide (Caustic Soda)	x	x	x	
Sodium Hypochlorite (Hypochlorite of Soda)	x	x	x	
Sodium L-Ascorbate (Vitamin C Sodium)	x	x	x	
Sodium Metaphosphate		x	x	
Sodium metasilicate	x			
Sodium nitrite	x		x	
Sodium octanoate	x			
Sodium Pantothenate		x	x	
Sodium phosphate	x	x		
Sodium propionate	x	x	x	
Sodium Pyrophosphate (Tetrasodium Pyrophosphate)	x	x	x	
Sodium Pyrosulfite (Sodium Metabisulfite, Acid Sulfite of Soda)		x	x	
Sodium sulfate	x		x	
Sodium Sulfite		x	x	
Sodium tripolyphosphate	x	x		
Sorbic acid	x	x	x	
Soy fiber (okara)	x			
Soybean oil	x	x		
Starch Acetate		x	x	
Starch Sodium Octenyl Succinate		x	x	
Stearadonic acid (SDA) soybean oil	x			
Succinic Acid		x	x	
Sucralose (Trichlorogalactosucrose)	x		x	
Sugar beet fiber	x			
Sulfur Dioxide (Sulfurous Acid, Anhydride)		x	x	
Sulfuric acid	x	x	x	
Sunflower lecithin	x		x	
Sunflower oil	x			
Talc		x		x
Thiamine Hydrochloride (Vitamin B1 Hydrochloride)		x	x	
Thiamine Mononitrate (Vitamin B1 Mononitrate)		x	x	
Tomato lycopene extract and concentrate	x			
Tragacanth gum		x		x
Transglutaminase enzyme	x			x
Trehalose	x			x
Tricalcium Phosphate (Calcium Phosphate, Tribasic)	x		x	
Tripotassium Phosphate (Potassium Phosphate, Tribasic)	x		x	
Trisodium Phosphate (Sodium Phosphate, Tribasic)	x		x	
Tuna oil	x			
Vegetable Juice color	x			
Vitamin A (Retinol)		x	x	
Vitamin A Fatty Acids Esters (Retinol Esters of Fatty Acids Esters)		x	x	
Whey protein concentrate	x			
Xanthan gum	x			x
Zinc Gluconate		x	x	
β-Carotene		x	x	

LEGEND

\ = listed but not permitted in meat

Δ = only permitted under certain conditions

Considered a meat product and approved for use in Japan

Listed as "food" and permitted for use in Japan