

(1) As a byproduct in the “Lime soda process”;

(2) By precipitation of calcium carbonate from calcium hydroxide in the “Carbonation process”; or

(3) By precipitation of calcium carbonate from calcium chloride in the “Calcium chloride process”.

(b) The ingredient meets the specifications of the Food Chemicals Codex, 3d Ed. (1981), p. 46, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(c) In accordance with §184.1(b)(1), the ingredient is used in food with no limitation other than current good manufacturing practice.

(d) Prior sanctions for this ingredient different from the uses established in this section, or different from that set forth in part 181 of this chapter, do not exist or have been waived.

[48 FR 52441, Nov. 18, 1983]

#### § 184.1193 Calcium chloride.

(a) Calcium chloride ( $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , CAS Reg. No. 10035-04-8) or anhydrous calcium chloride ( $\text{CaCl}_2$ , CAS Reg. No. 10043-52-4) may be commercially obtained as a byproduct in the ammonia-soda (Solvay) process and as a joint product from natural salt brines, or it may be prepared by substitution reactions with other calcium and chloride salts.

(b) The ingredient meets the specifications of the Food Chemicals Codex, 3d Ed. (1981), p. 47, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/](http://www.archives.gov/federal_register/)

*code\_of\_federal\_regulations/ibr\_locations.html*.

(c) The ingredient is used as an anticaking agent as defined in §170.3(o)(1) of this chapter; antimicrobial agent as defined in §170.3(o)(2) of this chapter; curing or pickling agent as defined in §170.3(o)(5) of this chapter; firming agent as defined in §170.3(o)(10) of this chapter; flavor enhancer as defined in §170.3(o)(11) of this chapter; humectant as defined in §170.3(o)(16) of this chapter; nutrient supplement as defined in §170.3(o)(20) of this chapter; pH control agent as defined in §170.3(o)(23) of this chapter; processing aid as defined in §170.3(o)(24) of this chapter; stabilizer and thickener as defined in §170.3(o)(28) of this chapter; surface-active agent as defined in §170.3(o)(29) of this chapter; synergist as defined in §170.3(o)(31) of this chapter; and texturizer as defined in §170.3(o)(32) of this chapter.

(d) The ingredient is used in foods at levels not to exceed current good manufacturing practices in accordance with §184.1(b)(1). Current good manufacturing practices result in a maximum level, as served, of 0.3 percent for baked goods as defined in §170.3(n)(1) of this chapter and for dairy product analogs as defined in §170.3(n)(10) of this chapter; 0.22 percent for non-alcoholic beverages and beverage bases as defined in §170.3(n)(3) of this chapter; 0.2 percent for cheese as defined in §170.3(n)(5) of this chapter and for processed fruit and fruit juices as defined in §170.3(n)(35) of this chapter; 0.32 percent for coffee and tea as defined in §170.3(n)(7) of this chapter; 0.4 percent for condiments and relishes as defined in §170.3(n)(8) of this chapter; 0.2 percent for gravies and sauces as defined in §170.3(n)(24) of this chapter; 0.1 percent for commercial jams and jellies as defined in §170.3(n)(28) of this chapter; 0.25 percent for meat products as defined in §170.3(n)(29) of this chapter; 2.0 percent for plant protein products as defined in §170.3(n)(33) of this chapter; 0.4 percent for processed vegetables and vegetable juices as defined in §170.3(n)(36) of this chapter; and 0.05 percent for all other food categories.

(e) Prior sanctions for this ingredient different from the uses established in

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this section do not exist or have been waived.

[47 FR 27808, June 25, 1982, as amended at 61 FR 14247, Apr. 1, 1996]

### § 184.1195 Calcium citrate.

(a) Calcium citrate ( $\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 4\text{H}_2\text{O}$ , CAS Reg. No. 813-0994-095) is the calcium salt of citric acid. It is prepared by neutralizing citric acid with calcium hydroxide or calcium carbonate. It occurs as a fine white, odorless powder and usually contains four moles of water per mole of calcium citrate.

(b) The ingredient meets the specifications of the Food Chemicals Codex, 3d ed. (1981), pp. 49 and 50, which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, and the Center for Food Safety and Applied Nutrition (HFS-200), 5100 Paint Branch Pkwy., College Park, MD 20740, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(c) In accordance with § 184.1(b)(1), the ingredient is used in food with no limitation other than current good manufacturing practice. Calcium citrate may also be used in infant formula in accordance with section 412(g) of the Federal Food, Drug, and Cosmetic Act (the act) or with regulations promulgated under section 412(a)(2) of the act.

(d) Prior sanctions for this ingredient different from the uses established in this section do not exist or have been waived.

[59 FR 63896, Dec. 12, 1994]

### § 184.1199 Calcium gluconate.

(a) Calcium gluconate ( $[\text{CH}_2\text{OH}(\text{CHOH})_4\text{COO}]_2\text{Ca}$ , CAS Reg. No. 299-28-5) is the calcium salt of gluconic acid which may be produced by neutralization of gluconic acid with lime or calcium carbonate.

(b) The ingredient meets the specifications of the Food Chemicals Codex,

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3d Ed. (1981), p. 51, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(c) The ingredient is used as a firming agent as defined in § 170.3(o)(10) of this chapter; formulation aid as defined in § 170.3(o)(14) of this chapter; sequestrant as defined in § 170.3(o)(26) of this chapter; stabilizer or thickener as defined in § 170.3(o)(28) of this chapter; and texturizer as defined in § 170.3(o)(32) of this chapter.

(d) The ingredient is used in foods at levels not to exceed current good manufacturing practices in accordance with § 184.1(b)(1). Current good manufacturing practices result in a maximum level, as served, of 1.75 percent for baked goods as defined in § 170.3(n)(1) of this chapter; 0.4 percent for dairy product analogs as defined in § 170.3(n)(10) of this chapter; 4.5 percent for gelatins and puddings as defined in § 170.3(n)(22) of this chapter; and 0.01 percent for sugar substitutes as defined in § 170.3(n)(42) of this chapter.

(e) Prior sanctions for this ingredient different from the uses established in this section do not exist or have been waived.

[47 FR 27808, June 25, 1982]

### § 184.1201 Calcium glycerophosphate.

(a) Calcium glycerophosphate ( $\text{C}_3\text{H}_7\text{CaO}_6\text{P}$ , CAS Reg. No. 27214-00-2) is a fine, white, odorless, almost tasteless, slightly hygroscopic powder. It is prepared by neutralizing glycerophosphoric acid with calcium hydroxide or calcium carbonate. The commercial product is a mixture of calcium  $\beta$ -, and  $D$ -, and  $L$ - $\alpha$ -glycerophosphate.

(b) The ingredient meets the specifications of the "Food Chemicals Codex," 3d Ed. (1981), pp. 51-52, which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from