

Kemin Foods, L.C.

Specification Sheet

Product No. 05013

SHIELD[®] brand GRANULES

CALCIUM PROPIONATE

$C_6H_{10}CaO_4$

Mol. Wt. 186.22
Melting Point $>250^{\circ}C$

DESCRIPTION

White granules characterized by a faint odor of propionic acid. One (1) gram dissolves in about 3 ml of water. The pH of a 1 in 10 solution is 6.5-10.0.

IDENTIFICATION

- A) A 1 in 20 solution gives positive tests for calcium.
- B) Upon ignition at a relatively low temperature, it yields an alkaline residue which effervesces with acids.
- C) Warm a small sample with sulfuric acid. Propionic acid, recognizable by its odor, is evolved.

SPECIFICATIONS

ASSAY: Not less than 98.0% of $C_6H_{10}CaO_4$, calculated on the anhydrous basis.

INSOLUBLE SUBSTANCES: Less than 1.0%. From natural sources, not more than 0.2% of calcium propionate. From anti-caking agent, not more than 0.8%.

MOISTURE: 5% maximum

IMPURITIES: Arsenic.....Not more than 3 ppm
Fluoride.....Not more than 0.003%
Heavy Metals.....Not more than 10 ppm
Magnesium.....Passes test (about 0.4%)

PHYSICAL ANALYSIS

Not more than 1% through a 200 U.S. mesh screen.

Not more than 35% on a 20 U.S. mesh screen.

TESTS

Assay. Food Chemicals Codex, Third Edition. National Academy Press, Washington, D.C., 1981.

KOSHER  Certified

KEMIN FOODS, L.C. • 2100 Maury St., Box 70 • Des Moines, IA U.S.A. 50301-0070 • 515/883-1180