

BENZOIC ACID –26043

A white, crystalline, aromatic carboxylic acid commonly used as a food preservative (E210) to inhibit yeast and mold,, especially in acidic products, with a melting point of $(122.3\text{\textdegree C})$. It is produced industrially via the oxidation of toluene and is used in medicines, dyes, and cosmetics. While safe at low concentrations, it can cause skin, eye, and respiratory irritation.

Product Specification

| SR. No. | NAME OF THE TEST | LIMITS |
|---------|--|--|
| 1 | Description | White to slightly off-white flakes |
| 2 | Solubility | Slightly soluble in water, soluble in boiling water, freely soluble in 95% ethanol, chloroform and in fatty oils. |
| 3 | IDENTIFICATION a) Melting Point b) Reaction of Benzoates | 121°C-123°C 5% solution in 96% ethanol gives dull yellow colored precipitate with ferric chloride solution, which is soluble in ether |
| 4 | Assay (on anhydrous basis) | 99.0% min |
| 5 | Moisture content | 0.7% max. |
| 6 | Chlorinated Compounds | 25 ppm max. |
| 7 | Sulphated Ash | 0.1% max. |
| 8 | Acid value | 455-463 |
| 9 | Total oxidizable matter | Max. 0.3 ml of 0.1N KMnO ₄ per gram. |

