



Benzoic Acid

Benzoic acid is a white crystalline organic compound with the chemical formula C7H6O2. It's a naturally occurring compound found in certain fruits, such as cranberries, and is used as a food preservative due to its antimicrobial properties.

Application

- 1. Food Preservation: Benzoic acid and its salts, such as sodium benzoate, are commonly used as preservatives in various food and beverage products to inhibit the growth of bacteria, yeasts, and molds.
- 2. Acidic Properties: Benzoic acid is a weak acid that can react with bases to form benzoate salts. Its acidic nature contributes to its preservation properties.
- 3. Flavoring Agent: In addition to its preservative role, benzoic acid is sometimes used as a flavoring agent in foods and beverages.
- 4. Pharmaceuticals: Benzoic acid and its derivatives are used in the synthesis of various pharmaceutical compounds.
- 5. Industrial Applications: It's also used in industries such as cosmetics, plastics, and dyes.