

FUMARIC ACID



CAS Number: 110-17-8

Other Names: 2-Butenedioic acid; trans-Butenedioic acid;
Allomaleic acid; Boletic acid; Lichenic acid; fumarate; Tumaric acid

Formula: $C_4H_4O_4$

PRODUCT INTRODUCTION

Fumaric acid is a butenedioic acid in which the C=C double bond has E geometry. It is an intermediate metabolite in the citric acid cycle. It appears as a white crystalline solid and has a fruit-like taste and has been used as a food acidulant since 1946.

PHYSICAL AND CHEMICAL PROPERTIES

Content	99.03
Crystallizing point	46 Degree-C min
Appearance	White Crystal
Heavy metal	<0.000007
Residue on Ignition	<0.06%
Moisture .	0.2%
Melting point	295-298 °C
Arsenic (as AS)	0.000002 %
Maleic acid	0.09 %
Colour degree (HAZEN)	48

APPLICATIONS

- Fumaric acid is currently used in wheat and corn tortillas, sour dough and rye breads, refrigerated biscuit doughs, fruit juice and nutraceutical drinks, gelatin desserts, gelling aids, pie fillings and wine. Food research shows that Fumaric acid improves quality and reduces costs of many food and beverage products.
- Fumaric acid may be included as the acid part of effervescent tablet formulations, although this use is limited as the compound has an extremely low solubility in water.
- It is also used as a chelating agent which exhibits synergism when used in combination with other true antioxidants.

- Industrial uses of Fumaric acid include: Unsaturated Polyester; Alkyd Resins; Printing Inks; Paper Sizing
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PACKAGING OPTIONS

Drums

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