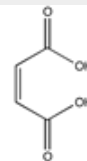


**Identification**

C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>  
M = 116,07 g/mol  
CAS [110-16-7]  
EC number: 203-742-5  
Taric code: 2917 19 90

**Synonyms**

cis-Butenedioic acid

**Applications**

synthesis of organic products, manufacturing of synthetic resins, for pharmaceuticals synthesizing, manufacture of dyes, in pharma industry.

**Specifications**

assay (acidimetric, referred to dried sample).....	99,0 - 101,0 %	appearance of solution .....	passes test
pH (10 %, H <sub>2</sub> O).....	max. 2	fumaric acid (TLC).....	max. 1,5 %
Identification B (EP).....	passes test	iron (Fe).....	max. 5 ppm
Identification C (EP).....	passes test	residue on ignition.....	max. 0,1 %
		water (K.F.).....	max. 2,0 %

**Physical data**

- Spec. Density: 1,59 g/cm<sup>3</sup>
- Bulk density: 750 - 800 kg/m<sup>3</sup>
- Solub. in water: (25 °C): 788 g/l
- Melting point: 133 °C
- Boiling point: 135 °C (decomposes)
- Flash point: 127 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- pH < 1

**Safety - GHS**

Signal Word: Warning

**Hazard Statements:**

H319: Causes serious eye irritation.

**Precautionary Statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P264: Wash thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice / attention.

**Transport/storage**

- 15°C - 25°C