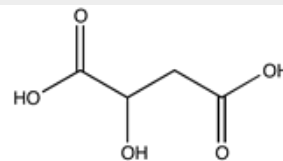


Identification

C₄H₆O₅
M = 134.09 g/mol
CAS [6915-15-7]
EC number: 230-022-8
Taric code: 2918 19 80

**Synonyms**

DL-Hydroxysuccinic acid, DL-Malate

Applications

in biochemistry, for pharmaceuticals synthesizing, synthesis of organic products, in pharma industry.

Specifications

assay (acidimetric, on dried sample).....	99,0 - 100,5 %	Related substances:passes test	
Identification IR.....	passes test	fumaric acid.....	max. 1,0 %
melting point.....	128 - 132°C	maleic acid.....	max. 0,05 %
appearance of solution.....	clear and colourless	any other impurities.....	max. 0,1 %
water-insoluble substances.....	max. 0,1 %	total of other impurities.....	max. 0,05 %
specific rotation ([α] ₂₅ ^D ; c = 20, H ₂ O)-	0,10° - + 0,10°	residue on ignition.....	max. 0,1 %
		water (K.F.).....	max. 2,0 %

Physical data

- Appearance: crystals or powder, white or almost white
- Spec. Density: 1,60 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): ~ 530 g/l
- Melting point: 127-130 °C
- Boiling point: 150 °C (decomposes)
- Flash point: 203 °C
- Ignition temperature: 349 °C
- pH(10 g/l H₂O, 20 °C) ~ 2,3

Safety - GHS

Signal Word: Warning

Hazard Statements:

H315: Causes skin irritation.
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.
P321: Specific treatment (see on this label).
P332+P313: If skin irritation occurs: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- 15°C - 25°C