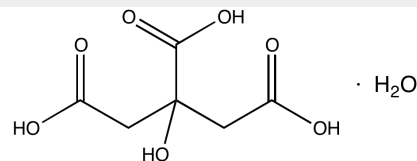


Identification

$C_6H_8O_7 \cdot H_2O$
 M = 210,14 g/mol
 CAS [5949-29-1]
 EC number: 201-069-1
 Taric code: 2918 14 00


Synonyms

2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate, β-Hydroxytricarballic acid monohydrate

Applications

analytical chemistry, laboratory reagent, in buffer solutions, in pharma industry.

Specifications

assay (acidimetric, referred to dried sample).....	99,5 - 100,5 %	water (K.F.).....	7,5 - 9,0 %
identification.....	passes test	Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.	
appearance of solution	passes test	Residual solvents are analysed according to guideline CPMP/ICH/283/95.	
clarity of solution.....	passes test		
colour of solution.....	passes test		
sulfates (SO ₄).....	max. 150 ppm		
oxalic acid (C ₂ H ₂ O ₄).....	max. 360 ppm		
readily carbonizable substances.....	passes test		
residue on ignition.....	max. 0,05 %		

Physical data

- Appearance: crystals, colourless or white
- Spec. Density: 1,665 g/cm³
- Bulk density: ~ 800 - 1000 kg/m³
- Solub. in water: (20 °C): very soluble in water
- Melting point: 135 - 152 °C
- Boiling point: 135 - 152 °C (decomposes)
- Ignition temperature: 345 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- Expl. limit (lower): 8,0 Vol%
- pH(50 g/l H₂O, 25 °C) ~ 1,85

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.

Toxicological data

- LD 50 (oral, rat): 3000 mg/kg
- WGK: 1
- Poison class CH (Swiss): 5