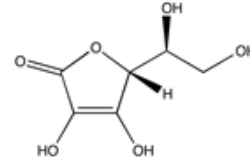


Identification

$C_6H_8O_6$
 M = 176,13 g/mol
 CAS [50-81-7]
 EC number: 200-066-2
 Taric code: 2936 27 00


Synonyms

Vitamin C, 3-Oxo-L-gulonic acid-γ-lactone

Applications

synthesis of organic products, for pharmaceuticals synthesizing, antioxidant (in food industry), in biochemistry.

Specifications

assay (iodometric).....	min. 99,7 %	copper (Cu).....	max. 0,3 ppm
identity (IR-spectrum).....	passes test	heavy metals (as Pb).....	max. 0,001 %
specific rotation ($[\alpha]_{20}^D$, c = 10, H ₂ O).....	+ 20,5 ° - + 21,5 °	iron (Fe).....	max. 2 ppm
insoluble in water.....	max. 0,01 %	lead (Pb).....	max. 0,001 %
pH (5 %, H ₂ O).....	2,2 - 2,5	nickel (Ni).....	max. 0,001 %
chlorides (Cl).....	max. 0,005 %	residue on ignition.....	max. 0,05 %
sulfates (SO ₄).....	max. 0,002 %	loss on drying (105 °C).....	max. 0,1 %

Physical data

- Appearance: bright crystals , white
- Spec. Density: 1,65 g/cm³
- Bulk density: ~ 500 - 900 kg/m³
- Solub. in water: (24 °C): 330 g/l
- Melting point: 190 - 192 °C (decomposes)
- Ignition temperature: 380 °C
- pH(50 g/l H₂O, 20 °C) 2,2 - 2,5

Transport/storage

- 10°C - 30°C