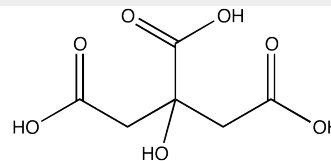


Citric acid anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur

Identification

$C_6H_8O_7$
M = 192,13 g/mol
CAS [77-92-9]
EC number: 201-069-1
Taric code: 2918 14 00



Synonyms

2-Hydroxy-1,2,3-propanetricarboxylic acid, b-Hydroxy tricarboxilic acid

Applications

acidifying agent, analytical chemistry, laboratory reagent, in food industry, antioxidant.

Specifications

assay (acidimetric).....	min. 99,5 %	phosphates (as PO_4).....	max. 0,001 %
assay (acidimetric, referred to dried sample).....	99,5 - 100,5 %	sulfates (SO_4).....	max. 150 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 3 ppm
appearance of solution.....	passes test	lead (Pb).....	max. 2 ppm
insoluble in water.....	max. 0,005 %	readily carbonizable substances.....	passes test
chlorides (Cl).....	max. 0,001 %	sulphur compounds (as SO_4).....	max. 0,002 %
oxalates (C_2O_4).....	passes test	residue on ignition.....	max. 0,02 %
		water (K.F.).....	max. 1,0 %

Physical data

- Appearance: powder, white
- Spec. Density: (18 °C) 1,67 g/cm³
- Bulk density: ~ 560 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: ~ 153 °C (decomposes)
- Flash point: 93 °C
- Ignition temperature: 345 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- Expl. limit (upper): 8,0 Vol%
- Expl. limit (lower): 2,3 Vol%
- pH(100 g/l H_2O , 20 °C) ~ 1,7

Safety - GHS

Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation.
H335: May cause respiratory irritation.



Precautionary Statements:

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 5°C - 30°C