

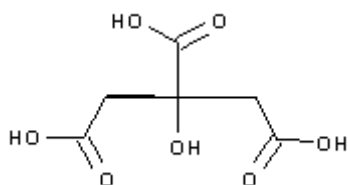


PRODUCT CODE: 141808

Citric Acid anhydrous (USP, BP, Ph. Eur., JP) pure, pharma grade

$C_6H_8O_7$

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M.= 192,13

CAS [77-92-9]

EINECS 201-069-1

TARIC 2918 14 00 00

SYNONYMS: 2-Hydroxy-1,2,3-Propanetricarboxylic acid

PHYSICAL DATA: Small crystals, White, Soluble in water 622 g/l at 20 °C D 1,665 • M.P.: 153 °C • pH(100g/l)1,7 •

BIBLIOGRAPHY: Merck Index **13**, 2.350 Sax **CMS750** • Safety **2** , **892 B** • Ullmann (**5.**)**7** , 103 • Beilstein **3** , **556 I** , **194 II** , **359 III** ,**1091 IV** , **1272** • BRN 782061 • ACS **XI** • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: GE 7350000 • LD L0 rbt 7g/Kg • LD50 oral mus 5.040 mg/kg • LD50 ipr mus 903 mg/kg



H: H319 •

P: P264 • P280 • P305+P351+P338 • P337+P313 •

SPECIFICATIONS:

Assay (Acidim.) calc. a.d.s.	99,5-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in H ₂ O	0,01 %
Darkened substances by H ₂ SO ₄	passes test
Residue on ignition (as SO ₄)	0,05 %
Chloride (Cl)	0,005%
Sulfate (SO ₄)	0,01%
Colour of solution	passes test
Residual solvents (Ph.Eur/USP)	passes test
Oxalate (C ₂ O ₄)	0,035%
Water (H ₂ O)	0,5 %
Heavy metals (as Pb)	0,001%

Ba	passes test
Ca	0,02 %
Mg	0,005 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	0,5 ppm
As	1 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	5 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm