



**PRODUCT CODE: 197012**

**Citric Acid solution 15% w/v pharma grade**

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CAS [77-92-9]

EINECS 201-069-1

TARIC 2918 14 00 00

**PHYSICAL DATA:** liquid, Colourless, Miscible with water D 20/4 1,05 •

**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** •

**HAZARDOUS:** LD50 oral mus 5.040 mg/kg • LD50 oral rat 11.700 mg/kg • LD50 skn rat >2.000 mg/kg • LD50 ipr mus 940 mg/kg LD50 ipr rat 725 mg/kg



H: H319 •

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

**WEIGHT/VOLUME INFORMATION:** 1l~1,05 kg 1kg~0,95 l

**SPECIFICATIONS:**

Assay (Acidim.) w/v 14,5 % - 15,5 %

Identity :

Identity according to Pharmacopoeias: passes test

**Maximum limit of impurities**

Appearance and colour passes test

Darkened substances by H2SO4	passes test
Residue on ignition (as SO4)	0,05 %
Sulfate (SO4)	0,01 %
Residual solvents (Ph.Eur/USP)	passes test
Oxalate (C2O4)	0,035 %
Heavy metals (as Pb)	0,001 %

Elemental impurities (ICH Q3D):

Class 1

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

**This product has been manufactured with Citric Acid anhydrous which passes Ph. Eur., BP and USP specifications.**