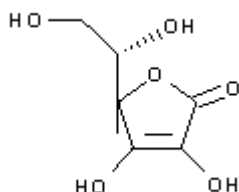
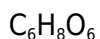


**PRODUCT CODE: 141013****L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade**

---



M.= 176,13

CAS [50-81-7]

EINECS 200-066-2

TARIC 2936 27 00 00

**SYNONYMS:** (R)-5-[(S)-1,2-Dihydroxyethyl]-3,4-Dihydroxy-5-(H)-Furan-2-one, Vitamin C**PHYSICAL DATA:** Small crystals, White, Soluble in water 333 g/l at 20 °C M.P.: 192 °C • pH(50g/l)2,2 •**BIBLIOGRAPHY:** Merck Index **12**, 867 13, 837 Sax **ARN000** • Safety **2** , **312 A** • Beilstein **18** , **5 III** , **3038 V** , **26**• BRN 84272 • ACS **XI** • ISO 6353-3/1987 R - 70 , 39 • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) 6.3  
6.6 • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •**HAZARDOUS:** RTECS: CI 7650000 • LD50 oral mus 3.367 mg/kg • LD50 oral rat 11.900 mg/kg • LD50 ipr mus  
643 mg/kg**OBSERVATIONS:** Storage away from direct light. •**SPECIFICATIONS:**

Assay (Iodom.)

99,0-100,5%

Identity :

Identity according to Pharmacopoeias:

passes test

Specific rotation  $[\alpha]_{20/D}$  c=10 (in H<sub>2</sub>O)

+20,5 - +21,5°

**Maximum limit of impurities**

Appearance of solution	passes test
Insoluble matter in H <sub>2</sub> O	passes test
Residue on ignition (as SO <sub>4</sub> )	0,1 %
Chloride (Cl)	0,025%
Sulfate (SO <sub>4</sub> )	0,01%
Related substances:	passes test
D-Sorbosonic Acid	0,1%
Methyl-D-Sorbosonate	0,15%
Other impurities	0,10%
Total impurities	0,2%
Residual solvents (Ph.Eur/USP)	passes test
Oxalic acid	0,2%
Heavy metals (as Pb)	0,001%

Cu	0,0005 %
Fe	0,0002 %

**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	5 ppm
Sn	600 ppm
Cr	25 ppm