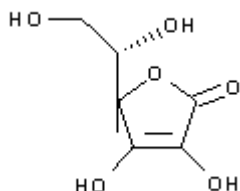


PRODUCT CODE: 141013

L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pharma grade, BioChemica

$C_6H_8O_6$



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.**2025** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** • 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
pH of 5% solution	2,2 - 2,5
Specific rotation [α] 20/D c=10 (in H2O)	+20,5 - +21,5°

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in H ₂ O	passes test
Residue on ignition (as SO ₄)	0,1 %
Chloride (Cl)	0,005%
Sulfate (SO ₄)	0,002%
Related substances:	passes test
L-Sorbosonic Acid	0,1%
Methyl-L-Sorbosonate	0,15%
Other impurities	0,10%
Total impurities	0,2%
Residual solvents (Ph.Eur/USP)	passes test
Oxalic acid	0,2%
Heavy Metals (ICP-OES)	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