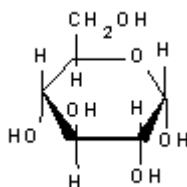
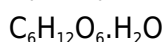
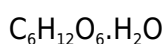




PRODUCT CODE: 143140

D(+)-Glucose 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade



M.= 198,17

CAS [77938-63-7]

EINECS 200-075-1

TARIC 1702 30 50 10

SYNONYMS: Dextrose, D-Glucopyranose, Grape sugar

PHYSICAL DATA: Small crystals, White, Soluble in water 820 g/l at 20 °C D 20/4 1,54 • M.P.: 83 °C • pH6 - 7 •

BIBLIOGRAPHY: Merck Index **12**, 4.467 13, 4.472 BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • Royal Decree I1039 • DAB 10 (1991) •

HAZARDOUS: LD L0 oral rbt 20.000 mg/kg • LD50 oral rat 25.800 mg/kg • LD50 ipr mus 18.000 mg/kg

SPECIFICATIONS:

Assay (C ₆ H ₁₂ O ₆)	97,5 - 102,0 %
Identity :	
Identity according to Pharmacopoeias:	passes test
Specific rotation [α] 20/D c=10 (in H ₂ O)	+52,5 - +53,3°

Maximum limit of impurities

Appearance and colour of solution	passes test
Insoluble matter in H ₂ O	0,01 %

Conductivity (20 % aq. Sol. 25°C)	20 us/cm
Residual solvents (Ph.Eur/USP)	passes test
Dextrin	passes test
Soluble starch and sulfites (as SO ₂)	0,0015%
Related substances:	
Maltotriose	0,2 %
Fructose	0,15 %
Maltose + Isomaltose	0,4 %
Unspecified impurities	0,10 %
Total impurities	0,5 %
Water (H ₂ O)	7,5-9,5 %
Heavy metals (as Pb)	0,0005%
Ca	0,02 %
Fe	0,0005 %
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	1 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