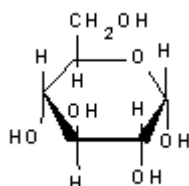


**PRODUCT CODE: 633140**

**D(+)-Glucose 1-hydrate (Ph. Eur, BP, USP) IPEC grade**

$C_6H_{12}O_6 \cdot H_2O$

$C_6H_{12}O_6 \cdot H_2O$



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.2021 • USP **43** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12** **13** • 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 <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	97,5 - 102,0 %
Identity :	
Identity according to Pharmacopoeias:	
Identity (A USP)	passes test
Identity (A Ph. Eur)	passes test
Identity (B Ph. Eur / USP)	passes test
Identity (E Ph. Eur / USP)	passes test

**Maximum limit of impurities**

Appearance of solution	
Appearance Clear < formazin I	passes test
Appearance Colour	< BY7
Loss on drying at 105°C	7,5 - 9,5 %
Conductivity (20 % aq. Sol. 25°C)	20 us/cm
Soluble starch and sulfites (as SO <sub>2</sub> )	0,0015 %
Residual solvents (Ph.Eur/USP)	passes test
Dextrin	passes test
Related substances:	
Fructose	0,15 %
Maltose + Isomaltose	0,4 %
Maltotriose	0,2 %
Unspecified impurities	0,10 %
Total impurities	0,5 %
Water	7,5 - 9,5 %

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