PanReac AppliChem ITW Reagents

PRODUCT CODE: 141621

D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade

$C_{12}H_{22}O_{11}$
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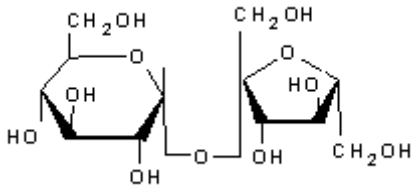

M.= 342,30 CAS [57-50-1] EINECS 200-334-9
TARIC 1701 99 90 00

SYNONYMS: b-D-Fructofuranosyl-a-D-Glucopyranoside, Sucrose, Sugar

PHYSICAL DATA: Small crystals, White, Soluble in water 1.970 g/l at 15 °C M.P.: 186 °C • pH7 •
BIBLIOGRAPHY: Merck Index **12,** 9.051 13**,** 8.966 Sax **SNH**000 • Safety **2 , 3192 D** • Beilstein **31 , 424 17 , 8 V , 399** • BRN 90825 • ACS **XI** • BP**.2018** • USP **-NF 36** • Ph. Eur. **8.0** (2014) 5.5 , 4299 **9.0** (2017) 5.5 , 4299 6.3 • F.C.C **IV**400 • DAB 10 •

HAZARDOUS: RTECS: WN 6500000 • LD50 oral rat 29.700 mg/kg • LD50 ipr mus 14.000 mg/kg VLA-ED 10 mg/m3

SPECIFICATIONS:

Identity :	
Identity according to Pharmacopoeias:	passes test
Specific rotation [a] 25/D c=26 (in H2O)	> +65,9°
Specific rotation [a] 20/D c=26 (in H2O)	+66,3 - + 67,0°

Maximum limit of impurities

Appearance of solution	passes test
Acidity or alkalinity	passes test
Loss on drying at 105°C	0,1%
Residue on ignition (as SO4)	0,02 %
Sugars Reducing	passes test
Chloride (Cl)	0,0035%
Sulfate (SO4)	0,006%
Sulfite (SO2)	0,0010%
Specific conductance at 20°C	35x10-6 ohm-1 cm-1
Inverted sugar	passes test
Colour value	45
Residual solvents (Ph.Eur/USP)	passes test
Dextrin	passes test
Heavy metals (as Pb)	0,0005%
Ba	passes test
Ca	passes test
Fe	0,0005 %

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	0,8 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