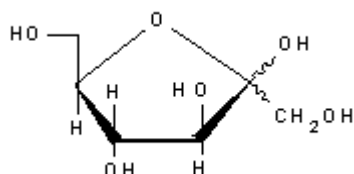


PRODUCT CODE: 142728

D(-)-Fructose (USP, BP, Ph. Eur.) pharma grade, BioChemica

$C_6H_{12}O_6$

$C_6H_{12}O_6$



M.= 180,16

CAS [57-48-7]

EINECS 200-333-3

TARIC 1702 50 00 00

SYNONYMS: D-Levulose

PHYSICAL DATA: crystalline powder, White, Soluble in water 3.750 g/l at 20 °C D 20/4 1,65 • M.P.: 105 °C • pH5 - 6

BIBLIOGRAPHY: Merck Index **12**, 4.295 13, 4.295 Beilstein **31**, **321 1**, **IV**, **2841** • BRN 1239004 • BP.2021 • USP **43** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12 13** • Royal Decree I1003 •

HAZARDOUS: RTECS: LS 7000000 •

SPECIFICATIONS:

Assay (as C ₆ H ₁₂ O ₆)	99,0-102,0%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH sol. 10 %	4,5 - 7,0
Specific rotation [α] _{20/D} c=10 (in H ₂ O)	-91,0 - -93,5°

Maximum limit of impurities

Appearance and colour of solution	passes test
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Acidity	passes test
Loss on drying at 70°C	0,5%
Residue on ignition (as SO ₄)	0,1 %
Sugars Foreign sugars	passes test
Chloride (Cl)	0,005%
Sulfate (SO ₄)	0,005%
Residual solvents (Ph.Eur/USP)	passes test
Absorbance UV (1 cm cell; Ref.:Water)	
ABS at 260 nm 0,1 M sol in water	0,04
ABS at 280 nm 0,1 M sol in water	0,05
Calcium and magnesium (as Ca)	0,005%
Hydroxymethylfurfural and related compounds	passes test
Water (H ₂ O)	0,5 %
Ba	passes test
Ca	0,002 %
Mg	0,002 %
Pb	0,00005 %

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	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	250 ppm
Sn	600 ppm
Cr	25 ppm