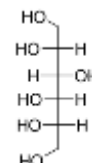


D-SORBITOL FOR MICROBIOLOGY

PRODUCT CODE	030242
SYNONYMS	(D-Glucitol,D-Sorbite)
C.I. NO.	--
CASR NO.	(50-70-4)
ATOMIC OR MOLECULAR FORMULA	C ₆ H ₁₄ O ₆
ATOMIC OR MOLECULAR WEIGHT	182.17
PROPERTIES	Odourless, hygroscopic , faint sweet taste



PARAMETER LIMIT

Description	White crystalline powder.
Solubility	5% w/v aqueous solution in boiling water is clear and colourless.
Identification (By FTIR)	Conforms.
Identification	Passes test.
Assay (Iodimetric, Calculated on anhy. sub)	98.0 - 100.5%
pH of (10% soln. in water)	3.5 – 7.0
Specific optical rotation (α) _D ²⁰ (calculated on anhy. subs.)	+4° to + 7°
Conductivity (20% Soln. in water)	NMT 20 uS cm-1
Reducing sugar (calc.as Glucose equiv)	0.2%

MAXIMUM LIMIT OF IMPURITIES

Water	1.0%
Residue on ignition	0.1%
Acidity or Alkalinity	Passes test.
Chloride (Cl)	0.005%
Nickel (Ni)	0.0001%
Sulphate (SO ₄)	0.01%
Arsenic (As)	0.0002%
Heavy metals (as Pb)	0.0005%
Lead (Pb)	0.00005%
Total sugar	1.0%
Residual solvent	Meets the requirements.
Related substance :	
i] Individual impurity	NMT 2.0%
ii] Sum of all impurities	NMT 3.0%
Microbial contamination (total aerobics)	1 000cfu/g
Total Moulds and yeast	100 cfu/g

Note(s) : Assay (if applicable) method mentioned.

WARNING

Hazard statements : Not hazardous. No hazards.

Precautionary statements

Prevention: ----

Response: ---

IMDG Code :
UN No. :
IATA :

Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water.

Hazard Pictogram(s) :---

Replace date 12-Sep-2025