

Technical Data Sheet**MERCK**

Product Group:

105388 D(+)-Mannose for biochemistry

Application:

D(+)-Mannose exhibits mutarotations: α -form from $[\alpha]_{20^\circ/D} = +29.3^\circ$, β -form from $[\alpha]_{20^\circ/D} = -17.0^\circ$, to $[\alpha]_{20^\circ/D} = 14.2^\circ$ at $c = 4$ in water.

Literature:

General Product Information:

Formula Hill	$C_6H_{12}O_6$	
Density	1.54 g/cm ³	20 °C
Molar mass	180.16 g/mol	
Bulk density	~ 100 kg/m ³	
CAS number	3458-28-4	
HS code	2940 00 00	
EC number	222-392-4	
Storage	Store at +15°C to +25°C.	
SDS	available	

Chemical /Physical Data:

Odour	odourless	
Form	solid	
Color	white	
pH value	~ 7	50 g/l, water, 20 °C
Solubility in water	freely soluble	20 °C
Melting point	133 °C	

Toxiological Data:**Package Information:**

Order Number:	Package:	Packages per pallet:	Packages:
1053880025	25 g		Glass bottle
1053880100	100 g		Plastic bottle

Specification:

Purity (HPLC)	≥ 98.0 %
Identity (IR)	conforms
Spec. rotation $[\alpha]_{20/D}$ (5 %; water)	13.8 - 14.4 °
Heavy metals (as Pb)	≤ 0.001 %
Water	≤ 0.5 %

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Advice:

Consulting services

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