

Product name:

Lactose monohydrate

Synonyms: Milk sugar, Lactobiose

CAS number: 10039-26-6

General information:		
	Chemical formula: C ₁₂ H ₂₂ O ₁₁ · H ₂ O	Molar Mass: 360.32 g/mol
	Appearance: White powder	Bulk density: 500 kg/m ³
	Solub. in water: 161 g/l	Melting point: 202 °C
	Ignition temperature: 390 °C	pH value : 4.5 - 5.5 (H ₂ O, 20 °C)
	Storage temp.: +15°C to +25°C.	Cautions: Not a hazardous substance
	R: N/A	S: N/A
	HS-No.: 1702 11 00	EC Number: 200-559-2

Hazard Symbol

Safety Information

Grade

Laboratory

Specification:				
	Description		Conforms	
	Solubility		Conforms	
	Identification A		Conforms	
	Identification B		Conforms	
	Residue on ignition	≤	0.1	%
	Optical rotation		+54.4 to +55.9	°
	Clarity and color of solution	≤	0.04	AU
	Acidity or alkalinity	≤	0.006	meq/g
	Water		4.5-5.5	%
	Loss on drying	≤	0.5	%
	Protein and light-absorbing impurities		Max Absorbance	
			@210-220 nm	0.25
			@270-300 nm	0.07
				AU

Ordering code	1 kg	2.5 kg	5 kg	10 kg	25 kg
P.E.	503.05.01000.02				
Glass					