
Lactose monohydrate, Hi-AR[™]/ACS

GRM017

Product Identifier

CAS No.	:	64044-51-5
EC No.	:	200-559-2
Molecular Formula	:	C ₁₂ H ₂₂ O ₁₁ .H ₂ O
Molecular Weight	:	360.31
Synonym	:	Milk sugar
HS Code	:	1702 11 10
Storage	:	Below 30°C
Shelf life	:	4 years

Technical Specification

Appearance	:	White to off-white crystals or powder or solid
Solubility	:	100 mg soluble in 1 mL of water
Clarity	:	10% aqueous solution in boiling water is colourless and clear.
Specific rotation	:	+54.4° to +55.9° (c = 10% in water/NH ₃ at 20°C, on anhydrous basis)
Melting range	:	210 - 220°C (dec.)
Water (K.F.)	:	4.00 - 6.00%
Dextrose	:	Passes test
Sucrose	:	Passes test
Iron	:	<= 0.0005%
Heavy metals (as Pb)	:	<= 0.0005%
Insoluble matter	:	<= 0.005%
Residue on ignition	:	<= 0.03%
Assay (GC/HPLC)	:	min. 99.50%

Safety Information

UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	Not available
WGK	:	3