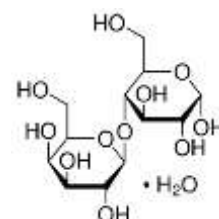


LACTOSE MONOHYDRATE AR

PRODUCT CODE	560915
SYNONYMS	(α -Lactose monohydrate)
C.I. NO.	--
CASR NO.	(10039-26-6)
ATOMIC OR MOLECULAR FORMULA	$C_{12}H_{22}O_{11} \cdot H_2O$
ATOMIC OR MOLECULAR WEIGHT	360.31
PROPERTIES	Sweet taste; Odorless; Stable in air. Insoluble in chloroform and ether.



PARAMETER	LIMIT
Description	A white to almost white crystalline powder.
Solubility	10% solution in hot water (50°C) is clear.
Identification (By FTIR)	Conforms.
Minimum assay (by GC)	99.50%
Specific Rotation $[\alpha]_{20}^D$	+54.4° to +55.9°
(C=10%, in water & 0.2 ml dil. NH ₃)	
Absorbance/Light absorption	Passes test.

MAXIMUM LIMIT OF IMPURITIES

Sulphated ash	0.05%
Water (By KF)	4.5 - 5.5%
Insoluble matter	0.005%
Acidity or alkalinity	Passes test.
Free Acid	0.5 ml N/1%
Alcohol soluble impurities	0.2%
Arsenic (As)	0.0001%
Copper (Cu)	0.00005%
Iron (Fe)	0.0002%
Heavy metals (as Pb)	0.0001%
Microbial contamination	NMT 100 org/g

Note(s) : 1] Assay (if applicable) method mentioned.

WARNING

Hazard statements : Not hazardous. No hazards.

Precautionary statements

Prevention: -----

Response: ---.

Disposal: -----

IMDG Code :

UN No. :

IATA :

Hazard Pictogram(s) :

Replace date 01-July-2022