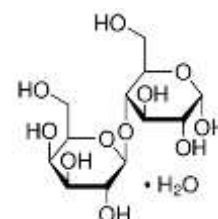


## LACTOSE MONOHYDRATE AR

<b>PRODUCT CODE</b>	<b>560915</b>
<b>SYNONYMS</b>	<b>(<math>\alpha</math>-Lactose monohydrate)</b>
<b>C.I. NO.</b>	--
<b>CASR NO.</b>	<b>(10039-26-6)</b>
<b>ATOMIC OR MOLECULAR FORMULA</b>	<b>C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O</b>
<b>ATOMIC OR MOLECULAR WEIGHT</b>	<b>360.31</b>
<b>PROPERTIES</b>	<b>Sweet taste; Odorless; Stable in air. Insoluble chloroform and ether.</b>



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)	99.0%
Specific Rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup> (C=10%, in water & 0.2 ml dil. NH <sub>3</sub> )	+54.4° to +55.9°
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-May-2026