## Product Information

**Product Number**
- GRM565

**Packing**
- 500G

### Product Information

- **Product Code**: GRM565
- **Product Name**: Lactose monohydrate, Bacteriological
- **Synonym**: 4-O-β-D-Galactopyranosyl-D-glucose; Milk sugar
- **Molecular Formula**: \( C_{12}H_{22}O_{11}.H_2O \)
- **Molecular Weight**: 360.32
- **CAS No.**: 64044-51-5
- **EC No.**: 200-559-2
- **HS Code**: 1702 11 00
- **Shelf Life**: 4 years

### Technical Specification

- **Appearance**: White to off-white crystals or powder
- **Solubility**: 100 mg soluble in 1 mL of water
- **Clarity**: 1% w/v aqueous solution is clear, without any haziness
- **pH (10% in water at 25°C)**: 4.00 - 6.50
- **Specific rotation**: +54.4° to +55.9° (c = 10% in water/NH\(_3\) at 25°C)
- **Melting range**: 210 - 220°C (dec.)
- **Water (K.F.)**: 4.50 - 5.50%
- **Heavy metals (as Pb)**: <= 0.0005%
- **Sulphated ash**: <= 0.1%
- **Assay (GC/HPLC)**: min. 99.50%

### Risk and Safety Information

- **WGK**: 3
- **Storage Temperature(°C)**: Store below 30°C

### Transport Information

- **Marine Pollutant**: No
- **ADR/RID**: Not Dangerous Goods
- **IMDG**: Not Dangerous Goods
- **IATA**: Not Dangerous Goods
Acid : Positive reaction, yellow colour.
Gas : Positive reaction.
Growth : Luxuriant
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