

SPECIFICATION

Product Name: Glycerol Monostearate Flakes
Chemical Formula: C ₂₁ H ₄₂ O ₄
CAS Number: 31566-31-1
Molecular Weight: 358.56 g/mol
Appearance: White Flakes
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Iodine Value(gI ₂ /100g)	-	Complies	Max. 3.0
Saponification Value (mg KOH/gm)	mg/kg	161.28	145 - 170
Total Monoglyceride	%	Complies	> = 40%
Acid Value	mg KOH/gm	Complies	Max. 3.0
Free Glycerol	%	Complies	Max. 2.0%
Moisture	%	0.8	< = 0.5%
Melting Unit (degC)	-	Complies	63 - 75

Physical Properties

- Solubility: Insoluble in water. Slightly soluble in alcohol. Freely soluble in oils and fats. Soluble in chloroform, ether, and acetone in organic solvents.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a well-closed, airtight container. Keep in a cool and dry place. Protect from moisture and humidity. Keep away from direct sunlight and heat sources. Store in a clean, well-ventilated area.

Applications

- Use: Used in creams, ointments, and lotions (oil + water mixing). Acts as a lubricant and binder. Helps control drug release. Improves consistency and shelf life. In bakery, dairy, and processed foods. Keeps bread soft for longer. Enhances mouthfeel and structure. Used in whipped and aerated products.
- Dosage: Depends on type of emulsion (O/W or W/O). Desired texture and stability. Regulatory standards.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 1 kgs and 100 grams, or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.