

SPECIFICATION

Product Name: Sodium Stearate Technical Grade
Chemical Formula: $C_{18}H_{35}NaO_2$
CAS Number: 822-16-2
Molecular Weight: 306.46 g/mol
Appearance: White fine powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	Positive for sodium stearate
pH (1% aqueous solution)	-	10.2	9.0 – 11.5
Moisture	%	2.3%	NMT 5%
Free fatty acid	%	1.2%	NMT 3.0%
Sodium stearate content	%	97.8%	95.0% – 99.0%
Unsaponifiable matter	%	0.6%	NMT 2.0%
Bulk density	g/ml	0.36g/ml	0.20 – 0.50 g/ml
Loss on drying	%	2.1%	NMT 5.0%
Heavy metals (as pb)	PPM	Complies	NMT 20 PPM

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.

- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Keep the container tightly closed to protect from moisture and contamination. Store away from strong acids, strong oxidizing agents, and direct sunlight in the original, properly labeled container to maintain product quality and prevent caking.

Applications

- Use: Widely used as an emulsifier, thickener, stabilizer, surfactant, and lubricant in industrial applications. It is commonly used in the manufacture of soaps, detergents, cosmetics, rubber products, polishes, lubricants, candles, and textile processing formulations. It also functions as a gelling agent and viscosity modifier in certain technical formulations.

- Dosage: Depends on the specific formulation and desired function (e.g., emulsifier, thickener, stabilizer, lubricant, or surfactant). Typical industrial usage levels are established during product development based on performance requirements and process conditions.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner 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.