

Stearic Acid Ethoxylate

Fatty acid ethoxylate, 5–20 moles EO

Product Description

Stearic Acid Ethoxylate is a non-ionic emulsifier used in cosmetics, textiles and pharmaceutical topical preparations. Available in 5 to 20 moles EO grades.

Certificate of Analysis

HSN Code: 3402.13

CAS Number: 9004-99-3

Classification: Non-ionic Surfactant

Parameter	Specification	Test Method
Appearance	White to off-white waxy solid	Visual
Active Content	"e 9 9 %	Gravimetric
HLB Value	8–16 (grade dependent)	Calculated
pH (1% solution)	5.5–7.5	USP <791>
Acid Value	"d 5 m g K O H / g	AOCS Cd 3d-63
Saponification Value	Grade dependent (mg KOH/g)	AOCS Cd 3-25
Melting Point	Grade dependent (30–50°C)	USP <741>
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: White to off-white waxy solid

Molecular Formula: $C_{18}H_{37}O_{(n+2)}$

Molecular Weight: Grade dependent (MW: 400–1500 g/mol)

Solubility: Dispersible in warm water; soluble in oils and alcohols

Melting Point: Grade dependent (30–50°C)

Packing: 25 kg cartons/bags; 200 kg fibre drums

Storage: Store in a cool, dry place. Temperature: 10–25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Mild irritant in dust form
- Hot molten material can cause burns