

SPECIFICATION

Product Name: Tween 80 Commercial Grade
Chemical Formula: $C_{64}H_{124}O_{26}$
CAS Number: 9005-65-6
Molecular Weight: 1,310 g/mol
Appearance: Yellow to yellow – green viscous liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Saponification Value	-	48	45 – 55
Hydroxyl Value	-	75	65 – 80
Acid value	-	1.7	Max. 2.0
Heavy Metal	PPM	ND	Max. 10

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in oil. Soluble in isopropyl alcohol.

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 and protect from direct sunlight, heat, and moisture. Store in the original, properly labeled container to maintain product quality and stability.

Applications

- Use: Widely used as a non-ionic emulsifier, solubilizer, wetting agent, and dispersing agent in pharmaceutical, food, cosmetic, and industrial formulations.
- Dosage: Depends on the intended formulation and application. It should be used according to product formulation requirements and applicable regulatory standards. The appropriate usage level varies based on the dosage form, product type, and desired emulsifying or solubilizing effect.



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Packaging

- Standard Packing: 50 Liter HDPE Drum 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.

