

SPECIFICATION

Product Name: Span 80 Commercial Grade
Chemical Formula: $C_{24}H_{44}O_6$
CAS Number: 1338-43-8
Molecular Weight: 428.60 g/mol
Appearance: Brownish-yellow viscous liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value
Acid Value	-	Max. 8.0
Saponification Value	-	145 - 160
Hydroxyl number	-	190 – 210
Destiny	-	1

Physical Properties

- Solubility: Insoluble 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, dispersing agent, and stabilizer in pharmaceutical, cosmetic, food, and industrial formulations. It is particularly suitable for preparing water-in-oil (W/O) emulsions and helps improve the stability and uniform distribution of ingredients in oil-based systems.

- 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 product type, dosage form, and the desired emulsifying or stabilizing effect.

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.

