

1. PRODUCT INFORMATION

Product Name:	Polysorbate 80
INCI Name:	Polysorbate 80
CAS No.:	9005-65-6
Composition:	Polyoxyethylene sorbitan monooleate
Grade:	Cosmetic Grade
Shelf Life:	24 months

2. PRODUCT DESCRIPTION

Polysorbate 80 is an ethoxylated sorbitan monooleate non-ionic emulsifier used in cosmetic and personal care formulations. It provides emulsification, solubilisation and dispersion capacity and is commonly used to help incorporate fragrance and lipophilic ingredients into water-based systems.

3. TYPICAL TECHNICAL PROPERTIES

Appearance	Pale yellow liquid
Acid Value	≤ 2.0 mg KOH/g
Hydroxyl Value	65-80 mg KOH/g
pH	5.0-8.0
Moisture	$\leq 1.0\%$

4. PHYSICAL & CHEMICAL PROPERTIES

Solubility:	Soluble in water and ethanol; dispersible in oils
Volatility:	Negligible
Composition:	Polyoxyethylene sorbitan monooleate

5. FUNCTIONS & APPLICATIONS

Primary Functions:

Non-ionic surfactant, emulsifier, solubiliser and dispersing agent.

Typical Applications:

Suitable for use in creams and lotions, cleansing products, bath and body formulations, hair care products, and formulations requiring the solubilisation or dispersion of oils, fragrances and other oil-soluble materials.

Typical Use Level:

1–10% depending on application and formulation requirements.

Processing Guidance:

May be incorporated into the water phase or used to pre-solubilise oils, fragrances and other oil-soluble materials prior to addition to the formulation. The required ratio of Polysorbate 80 to the material being solubilised should be established through formulation testing.

Formulation Note:

Higher use levels may be appropriate in specialised bath, oil-dispersing or high-oil systems. Final use level should be determined through formulation and stability testing.

6. STORAGE & HANDLING

Store in a sealed, cool and dry place away from direct sunlight and high temperatures.

Keep tightly sealed after use.

Normal industrial handling practices are appropriate.

7. SAFETY PROFILE

Based on available manufacturing documentation, Polysorbate 80 is not identified as hazardous under normal conditions of use. Refer to the Safety Data Sheet (SDS) for detailed safety and handling information.

8. REGULATORY STATUS

Polysorbate 80 is supplied as a cosmetic / food grade raw material. Manufacturer-stated conformity with the applicable USP standard. The formulator is responsible for assessing suitability and compliance of the finished product for its intended market.

DOCUMENT CONTROL

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