

## Polysorbate 80

### Specification Sheet

**Description:** Emulsifying agent consisting of sorbitol, ethylene oxide & oleic acid (polyoxyethylene-80 sorbitan monooleate), oleic acid is derived from vegetable oil. Purity > 95%. Saponification value 45-55. HLB value 15 (gives oil-in-water emulsions).

**CAS:** 9005-65-6

**INCI Name:** Polysorbate-80

**Composition:** Polysorbate-80

**Appearance:** Amber, viscous liquid, odorless.

**Benefits:**

- Non-ionic, multi-purpose emulsifier (enables water and oil to mix).
- Emulsifying efficacy is increased when combined with cetyl alcohol or sorbitan stearate.
- Acts as dispersing agent and anti-static thickener.
- Very useful as solubilizer and stabilizer of essential oils.
- May be useful as hair growth supplement.

**Use:** Can be added to formulas as is. Typical use level is 1 - 10%. For external use only.

**Applications:** Body washes, hair shampoos, hair loss treatments, lotions, creams, bath oils, solubilizates.

**Solubility:** Soluble in water & alcohols, insoluble in oils.

**Preservation:** Preservative-free

**Storage:** Store in a closed container at a dry place at room temperature.

**Country of Origin:** Mexico

**Raw material source:** Sorbitol, vegetable oils

**Manufacture:** Polysorbate 80 is obtained by esterification of sorbitol with one or three molecules of a fatty acid including stearic, lauric, oleic, and palmitic acid.



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**Animal Testing:** Not animal tested.

**GMO:** No data available.

**Vegan:** Does not contain animal-derived components.

**HS Code:** 3402420000