



Technical Data Sheet

ICC-Ethoxylated Products

Trade Name: TWEEN 80

Chemical Name: Poly oxyethylene glycol Sorbitan Monooleate

Grade: Chemical

I.C.C manufactures a wide range of surfactants designed to provide the appropriate functionality for all of our customers application needs .

TWEEN 80 is a nonionic surfactant and emulsifier often used in foods and cosmetics. This synthetic compound is a viscous and water-soluble liquid .

TWEEN 80 is utilized as a surfactant in soaps and cosmetics and in food or pharmaceutical products, it can act as an emulsifier .

Application

Tween 80 is a non-ionic surfactant that is widely used as an emulsifier in cosmetics, pharmaceuticals and food products .

Storage and Handling

Tween 80 container should be kept tightly closed in a dry and well-ventilated place .

Shelf life

Tween 80 is stable for 2 years when stored in the original sealed containers in a cool and dry place .

Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Tween 80. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling.

TEST	STANDARD TEST METHOD	STANDARD
Appearance	—	Viscous liquid
Color at 50°C, APHA	—	Yellow to brown
Density at 25°C, g/ml	ASTM D-1298	1.07±0.02
pH (5% aqueous)	ASTM D-1172	5-7
Cloud point, °C (3% in 1N NaCl)	ASTM D-2024	60-70
Viscosity at 25°C, cP	ASTM D-445	310-360
Hydroxyl value, mg KOH/g	ASTM D-4252	65-80
HLB, calculated	Calculated	14-15
Water, percent	ASTM E-203	Max. 0.5

Health Effects

Inhalation: Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid immediately.

Ingestion: Rinse mouth with plenty of milk or water (only if victim is conscious and alert). Get medical aid immediately.

Skin Contact: If skin contact occurs, wash the affected area with plenty of water and a neutral soap for a minimum of 5 minutes.

Eye Contact: If eye contact occurs, wash with plenty of clean water or amphoteric eye solution for a minimum of 15 minutes, holding the eyes open, medical advice should be followed.