



FEATURED PRODUCT

Polysorbate 20

INTRODUCTION:

Polysorbate 20 is a gentle, oily, liquid cosmetic additive that functions as a non-ionic surfactant and wetting agent that enhances the spread-ability of liquids. As a solubilizer, it helps both essential oils and fragrance oils to attach to various types of cosmetic bases, including liquid, cream, and gel bases, and thereby prevents the oils and bases from separating.

MANUFACTURE:

It is made by the reaction of sorbitol and polyol with ethylene oxide. The number 20 here represents the number of molecules of ethylene oxide that were reacted.

Synonyms	Sorbitan monolaurate, ethoxylated Polyoxyethylene sorbitan monolaurate
CAS no.	9005-64-5
EINECS no.	500-018-3
Molecular formula	$C_{26}H_{50}O_{10}$
Molecular weight	522.7
Structure	

APPLICATIONS:

- 🍷 **Food:** is used as a wetting agent in flavored mouth drops such as Ice Drops, helping to provide a spreading feeling to other ingredients like SD alcohol and mint flavor
- 🧪 **Biotechnology:**
 - as a washing agent in immunoassays, such as
 - Western blots and ELISAs
 - to saturate binding sites on surfaces (i.e., to coat polystyrene microplates, generally combined with proteins such as BSA)
 - to stabilize proteins purified protein derivative (PPD) solution used in skin testing for tuberculosis exposure as a solubilizing agent of membrane proteins
- 💊 **Pharmaceutical:** is used as an excipient in pharmaceutical applications to stabilize emulsions and suspensions
- 🏭 **Industrial:**
 - in many brands of baby wipes
 - by philatelists to remove stamps from envelopes and to remove residues from stamps, without harming the stamp itself
 - as wetting agent in rubber balers in the elastomer industry
 - as a shape directing agent to synthesize spheroidal magnetite nano-assemblies



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SPECIFICATIONS:

Test	Unit	Specification
Appearance	-	Viscous oily liquid
Color	-	Yellowish to Brown
Acid value	mgKOH/gm	Max 2.0
Saponification value	mgKOH/gm	40 - 50
Hydroxyl value	mgKOH/gm	96 - 108
Moisture content (by KFR)	%	Max 3.0
pH of 5% aqueous solution	-	5 - 7
Iodine value	I2/100gm	Max 5.0
Solubility	-	Soluble in water and alcohol

STORAGE:

Tightly closed. Keep in a well-ventilated place

PACKING:

220 kg HDPE drums

ICS offers Polysorbate 20 on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality & services will make ICS your supplier of choice. For additional information or Safety Data Sheet (SDS), please contact us at- info@itsusainc.com or Phone# 713-337-0152.