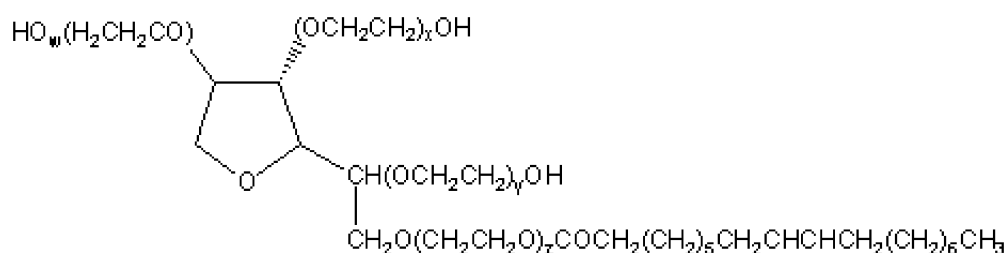




PRODUCT CODE: 142050

Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade
(® Registered trade-mark of ICI)



$$w + x + y + z = 20$$

CAS [9005-65-6]

EINECS 500-019-9

TARIC 3402 13 00 00

SYNONYMS: Polyoxyethylene 20 Sorbitane mono-Oleate, Polysorbate 80•

PHYSICAL DATA: liquid, Clear, Yellow to brownish, Soluble in water. D 20/4 1,08 • B.P.:> 100 °C • pH(50 g/l)20 °C5 - 7 • n₂₀/D : 1,472 • Flash P.:>149 °C(closed cup) • Ign. T.:>180 °C • Vap. press. 1,33 hPa • Viscosity 25 °C 425 mPa.s •

BIBLIOGRAPHY: Merck Index 13, 7.664 Sax **PKG250** • BP, 2014 • USP 37 • Ph. Eur. 7.0 (2013) 5.4 , 4007 8.0 (2014) 5.4 , 4007 6.3 , 6.6 • F.C.C IV308 • BOE 243(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: WG 2932500 • LD50 oral mus 25.000 mg/kg • LD50 oral rat 55.000 mg/kg • LD50 ipr mus 7.600 mg/kg

WEIGHT/VOLUME INFORMATION: 1l~1,075 kg 1kg~0,93 l

OBSERVATIONS: Storage away from direct light.

SPECIFICATIONS:

Identity :

Identity according to Pharmacopoeias

Density at 25/25

Viscosity 25°C

Passes test

1,06-1,09

300-500 cSt

MAXIMUM LIMIT OF IMPURITIES

Residue on ignition (as SO₄)

Acidity value

0,2 %

2

Hydroxyl value	65-80
Iodine value	18-24
Peroxide value	10,0
Saponification value	45-55
Composition of fatty acids	Passes test
Total ashes	0,25%
Residual solvents (Ph.Eur/USP)	Passes test
Ethylene Oxide	0,0001%
Dioxan	0,001%
Reducing impurities	Passes test
Water (H ₂ O)	3 %
Heavy metals (as Pb)	0,001%
Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)	
Class 1A (Pt, Pd)	10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm
Class 2 (Cu, Mn)	250 ppm
Class 3 (Fe, Zn)	1.300 ppm