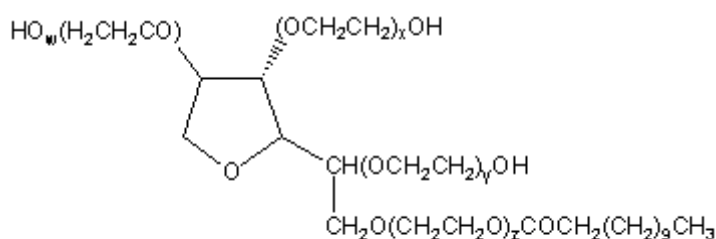




PRODUCT CODE: 142312

Tween ® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade
(® Registered trade-mark of ICI)



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

CAS [9005-64-5]

EINECS 500-018-3

TARIC 3402 13 00 90

SYNONYMS: Polyoxyethylene 20 Sorbitane mono-Laurate, Polysorbate 20

PHYSICAL DATA: liquid, Clear, Yellow to brownish, Soluble in water 100 g/l at 25 °C D 20/4 1,1 • B.P.:> 100 °C

• pH(50g/l)6 - 8 • n_{20/D} : 1,4735 • Flash P.:>150 °C • Viscosity 250 mPa.s •

BIBLIOGRAPHY: Merck Index **13**, 7.664 Sax **PKL000** • **BP.2018** • **USP 41** • Ph. Eur. **8.0** (2014) **9.0** (2017) 6.3

• F.C.C **IV306** • **BOE 243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: TR 7400000 • LD50 oral mus 37.000 mg/kg • LD50 oral rat 37.000 mg/kg •

WEIGHT/VOLUME INFORMATION: 1l~1,105 kg 1kg~0,905 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Identity :

Identity according to Pharmacopoeias: passes test

Maximum limit of impurities

Residue on ignition (as SO ₄)	0,2 %
Acidity value	2,0
Hydroxyl value	96-108
Iodine value	5
Peroxide value	10,0
Saponification value	40-50
Total ashes	0,25%
Residual solvents (Ph.Eur/USP)	passes test
Composition of fatty acids:	
Caproic acid	1,0 %
Caprilic acid	10,0 %
Capric acid	10,0 %
Lauric acid	40,0 - 60,0 %
Myristic acid	14,0 - 25,0 %
Palmitic acid	7,0 - 15,0 %
Stearic acid	7,0 %
Oleic acid	11,0 %
Linoleic acid	3,0 %
Ethylene Oxide	0,0001%
Dioxan	0,001%
Reducing impurities	passes test
Water (H ₂ O)	3,0 %
Heavy metals (as Pb)	0,001%

Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1 ppm
Hg	1,5 ppm

Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B	
Tl	5 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm

VEGETABLE ORIGIN.

Ed.: 12 . Vig.: 15.09.2017 .

Prod.: 142312