



PRODUCT CODE: 144564

Castor Oil (BP, Ph. Eur.) pure, pharma grade

CAS [8001-79-4]

EINECS 232-293-8

TARIC 1515 30 90 00

SYNONYMS: Ricinus oil

PHYSICAL DATA: liquid, viscous, Yellow, Insoluble in water D 20/4 0,96 • B.P.: 313 °C • n_{20/D} : 1,479 • Flash P.:110 °C •

BIBLIOGRAPHY: Merck Index **13**, 1.908 Safety **2** , **701 C** • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) **9.0** (2017) • F.C.C **IV94 10105** • DAB 10 (1991) •

HAZARDOUS: RTECS: FI 4100000 •

WEIGHT/VOLUME INFORMATION: 1l~0,958 kg 1kg~1,044 l

SPECIFICATIONS:

Hydroxyl value	>= 160
Identity :	
Identity according to Pharmacopoeias:	passes test
Refractive Index n _{20/D}	1,477-1,481
Specific rotation [α] 20/D (without dil.)	+3,5 - + 6,0°

Maximum limit of impurities

ABS	
at λ 270 nm 1.0 % w/v sol. in C ₂ H ₅ OH 96 °	0,7
Acidity value	1,5
Iodine value	82-90
Peroxide value	5,0

Saponification value	176-187
Unsaponifiable matter	0,8 %
Foreign fatty substances	passes test
Residual solvents (Ph.Eur.)	passes test
Composition of fatty acids:	
Palmitic acid	2,0 %
Stearic acid	2,5 %
Oleic acid	2,5 - 6,0 %
Linoleic acid	2,5 - 7,0 %
Linolenic acid	1,0 %
Eicosenic acid	1,0 %
Ricinoleic acid	85,0 - 92,0 %
Any other fatty acid	1,0 %
Water (H ₂ O)	0,3 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	5 ppm
As	1,5 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	30 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