

Description:

Latin name:	Olea Europaea, Compositae, Arnica montana L., Asteraceae
Shades:	This analysis report is also valid for: Deodorized/ Conventional
INC (EU)/ botanical name:	Olea Europaea Fruit OIL, ARNICA MONTANA FLOWER EXTRACT
CAS Registry Number EU):	8001-21-6, 68990-11-4
EC# (EINECS/ ELINCS):	232-273-9, 273-579-2
Functions as cosmetic product:	Emollient, masking, skin conditioning, perfuming
CPNP reference:	1470455
Customs tariff number:	1515 90 59
Spreading behaviour:	Medium

Physicochemical characteristics:

Parameter	Method	Range & unit
Unsaponifiable fraction	DGF: C-III 1b	0,75 %
Density	20 °C ASU L 31.00-1, mod. oscillating U-tube	0,921 g/ml
Refractive index	20 °C DIN EN ISO 6320	1,4738
Acid value	DIN EN ISO 660, titration	• 4,0* mg KOH/g (KOH = NaOH)
Free fatty acids (FFA)	Calculated in oleic acid (DGF C-V 2)	• 2,02* %
Saponification value	DGF C-V 3, 2002-05, Titration	183 mg KOH/g (KOH = NaOH)
Iodine value	DGF-C-V 11d, Wijs	126 g I ₂ /100g Semi-drying
Peroxide value	DIN EN ISO 3960	• 10,0* meq O ₂ /kg oil
Totox value (= Anisidine + 2 x Peroxide value)		• 20,0 meq O ₂ /kg oil

* The acid value, peroxide value and free fatty acids increase steadily during storage. However the product will have under suitable storage conditions at the end of the best before date an acid value • 4.0 mg KOH / g, a peroxide value • 15.0 meq O₂ / kg oil and free fatty acids • 2.02 %.



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Fatty Acids composition

According to ISO 12966 mod.,GC/FID

Name	Family	Symbol*	%**
Palmitic acid	Saturated	16:0	6,5
Stearic acid	Saturated	18:0	3,0
Oleic acid	Omega-9, mono unsaturated	18:1	31,8
Linoleic acid	Omega-6, poly unsaturated	18:2	56,4

* Number of carbon atoms and of double bonds

Further ingredients (Unsaponifiable fraction)	mg/kg (ppm) *	Sterols according to ISO 12228-1, GC	% *
Beta-Carotene (Provitamin A)		Beta-sitosterol	57,80
Calcium		Campesterol	8,57
Chlorine (Chlor)		Clerosterol	0,97
Copper (Kupfer)		Cholesterol (Cholesterin)	< 0,10
Iron (Eisen)		Delta-5-avenasterol	2,76
Helenalin esters	140	Delta-5,24-stigmastadienol	1,16
Lecithin	7500	Delta-7-avenasterol	4,45
Magnesium		Delta-7-campesterol	2,82
Minerals (Mineralien)		Delta-7-stigmastenol	12,75
Phosphorus (Phosphor)		Sitosterol	0,38
Sesquiterpene lactones	176	Stigmasterol	8,10
Potassium (Kalium)			
Sodium (Natrium)			
Squalene 382	382		
Sterols 3201	3201		
Tocopherols 584	584		
Triterpenediol esters (calculated as faradiol esters)	220		
Vitamin A (Retinol)			
Vitamin E, active	576		
Vitamin K			

According to EU Health Claims Regulation No. 1024/2006 it is principally not permitted to use the term "Free from Cholesterol" on any product packaging, even in case that the oil not contain more than 5 mg Cholesterol per 100 g.

Vitamin E/ Tocopherols according to ASU L 13.00-30, mod., HPLC/FI	mg/kg (ppm) *
Vitamin E, active 1	576,54
Alpha-Tocopherol (•)	569
Beta-Tocopherol (•)	14,70
Gamma-Tocopherol (•)	0,76
Delta-Tocopherol (•)	< 0,010
Calculated from the tocopherols.	

* The given values are to be considered as approximate average values, which are based on scientific references and/or analysis.

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Production/ Flavouring Regulation:

The arnica flower extract contains no additives and no other technical adjuncts; it is not blended and not formulated. The arnica flower extract is 100 % natural and corresponds to the EC Flavouring Regulation No. 1334/2008 for flavouring preparations.

Allergen status (if Food grade):

According to the REGULATION (EU) No 1169/2011 of 2011-October-25, Annex II, in this regard the oil contains the following allergens subject to labeling: none

Important information:

The specifications and the Material Safety Data Sheet the oil have to be observed. Due to this analysis report all former versions become invalid. All the values underlie natural fluctuations. This analysis report was provided to the best of our knowledge and belief. It serves information purposes only. A legally binding assurance of certain characteristics or of the appropriateness in a specific context of usage cannot be derived from our analysis report. The Analysis report is only binding, when explicitly agreed upon in written form. Hence, all values have to be validated by the customer himself and do not release him from his quality responsibility and duty to take care when processing our oil.

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