

Product - Specification

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Reg-No.: Sp382320d

Rev-No.: d

Printing Date: 12. January 2024

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Product / Trading-Name: **Borage oil cold pressed organic DE-ÖKO-001**

Description: Borage Oil pressed is obtained by mechanical expression from the seeds of *Borago officinalis* L.. It has a high content of gamma-linolenic acid.

Product No.: 382320

CAS No.: 225234-12-8

INCI Name: Borago Officinalis Seed Oil

Properties: A pale yellow to darkgreen oil. It has a slight and characteristic odour and taste. It is insoluble in water, miscible with petroleum spirit and ether.

Parameter	Method	Unit	Value
<u>Physical and Chemical Characteristics</u>			
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 6,0
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 15,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		1,470 - 1,480
relative density (20 °C)	Ph. Eur. [2.2.5]		0,910 - 0,928
iodine value	Ph. Eur. [2.5.4]	g I2/100g	130,0 - 150,0
saponification value	Ph. Eur. [2.5.6]	mg KOH/g	184,0 - 195,0

Fatty Acid Composition (GC of FAMES)

16:0 palmitic acid	Ph. Eur. [2.4.22]	%	8,0 - 13,0
18:0 stearic acid	Ph. Eur. [2.4.22]	%	2,0 - 7,0
18:1 oleic acid	Ph. Eur. [2.4.22]	%	14,0 - 24,0
18:2 linoleic acid	Ph. Eur. [2.4.22]	%	34,0 - 45,0
18:3 gamma linolenic acid	Ph. Eur. [2.4.22]	%	16,0 - 25,0
20:1 eicosenoic acid	Ph. Eur. [2.4.22]	%	3,0 - 5,0
22:1 erucic acid	Ph. Eur. [2.4.22]	%	1,0 - 4,0
24:1 nervonic acid	Ph. Eur. [2.4.22]	%	1,0 - 3,0

Storage:

Keep in well closed, well filled containers or under inert gas, protect from light, cool and dry.

Residual Solvents:

It complies with the guideline CHMP/ICH/82260/2006 (residual solvents)

Created:	AS	Checked:	JF	Released:	MT
Date:	08.11.21	Date:	08.11.21	Date:	08.11.21

