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Borage Seed Oil

CAS RN[®]: 84012-16-8.

DEFINITION

Borage Seed Oil is derived from seeds of *Borago officinalis* L. The oil is extracted by cold press or supercritical fluid extraction and then refined.

A suitable antioxidant may be added.

IDENTIFICATION

- **A.** It meets the requirements in *Specific Tests* for [Fats and Fixed Oils \(401\)](#), [Fatty Acid Composition](#).
- **B. IDENTIFICATION OF FIXED OILS BY THIN-LAYER CHROMATOGRAPHY (202):** The R_f values of the principal spots of the *Sample solution* correspond to those of the *Standard solution*.

SPECIFIC TESTS

- [FATS AND FIXED OILS, Acid Value\(401\)](#): NMT 1.0
- [FATS AND FIXED OILS, Peroxide Value\(401\)](#): NMT 5.0
- [FATS AND FIXED OILS, Saponification Value\(401\)](#): 184–194
- [FATS AND FIXED OILS, Unsaponifiable Matter\(401\)](#): NMT 2.0%
- [FATS AND FIXED OILS, Fatty Acid Composition\(401\)](#): Borage Seed Oil exhibits the composition profile of fatty acids in [Table 1](#).

Table 1

Fatty Acid	Shorthand Notation	Percentage (%)
Palmitic acid	16:0	8.0–11.0
Stearic acid	18:0	2.0–5.0
Oleic acid	18:1	14.0–19.0
Gamma-linolenic acid	18:3	18.0–24.0
Linoleic acid	18:2	34.0–42.0
Arachidic acid	20:0	NMT 0.5
Gadoleic acid	20:1	2.0–6.0
Behenic acid	22:0	NMT 0.8
Erucic acid	22:1	NMT 5.0
Nervonic acid	24:1	NMT 4.5

- [REFRACTIVE INDEX \(831\)](#): 1.474–1.478 at 20°

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in tight containers, preferably under an atmosphere of an inert gas, protected from light.
- **LABELING:** Label it to indicate the name and quantity of any added antioxidants. Where Borage Seed Oil is intended for use in the manufacture of dosage forms, it is so labeled.

Topic/Question	Contact	Expert Committee
BORAGE SEED OIL	Fatkhulla K Tadjimukhamedov Associate Scientific Liaison	NBDS2020 Non-botanical Dietary Supplements

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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