



ACTIFS PRÉCIEUX
NATURAL BIOACTIVE INGREDIENTS WITH IMPACT

GENERAL SPECIFICATION

**BLACK CUMIN CO₂ - TOTAL
EXTRACT**
REFERENCE: AP 207
ISSUE DATE: 02/02/2022



1- Product name

Black Cumin CO₂ -Total Extract (Nigella sativa - Seed Extract).

2- Raw material

Nigella sativa - Seed, dried

2. Definition

Black Cumin CO₂ -Total Extract obtained by supercritical fluid extraction using natural carbon dioxide as a solvent. no solvent residues, no inorganic salts, no heavy metals, no reproducible microorganisms

3. Origin of the Raw Materials

Tunisia

4. Declaration

In food: flavouring preparation or black cumin extract

In food supplements: black cumin extract

In cosmetics:

INCI-Name: Nigella Sativa Seed Extract,

CAS-No. 90064-32-7

EINECS-No. 290-094-1



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5. Field of Use

In food supplements:

The black cumin extract is suitable for use in food supplements due to its high linoleic acid content, among other things. Linoleic acid contributes to maintaining a normal cholesterol level in the blood.

In cosmetics:

The extract is also suitable for cosmetics due to its high content of linoleic acid. Linoleic acid belongs to the essential unsaturated fatty acids and, as an essential component of ceramides, is involved in maintaining a natural barrier that protects the skin from dehydration. Therefore, the extract is particularly suitable for use in moisturizing creams, massage oils and other skin care products, especially in products against dry and irritated skin.

In food:

The extract goes well with salads and other savory dishes and can also be used in baked goods and cheese products.

6. Organoleptic description

Yellow to brown, at room temperature clear liquid with typical smell and taste.

7. Ingredients

100 % Black Cumin CO₂-to extract

8. Composition

Fatty oil with high content of polyunsaturated fatty acids, including (50-65%) linoleic acid (C18:2), Fraction of essential oil (> 50%) consisting mainly of thymoquinone, cymene, thujane, carvacrol, Terpinène, longifolène.



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9. Regulation

The product complies with the requirements of Regulation (EC) No.1334/2008 on flavourings and with the requirements of Regulation (EC) No.1223/2009 on cosmetic products in the currently valid version.

10. REACH - Status

The substance is exempted from registration under annex V entry 9 of the reach regulation(EC) No 1907/2006.

11. Handling

Warm up 40°C (104°F) and mix before use.

12. Transport

No dangerous good in the sense of the transport regulations.

13. Storage Recommendations

Stable for at least **5 years** when stored in its original package, tightly sealed in a cool (46-90°F) and dry location out of heat and light. Storage under inert gas

14. Packaging

Aluminum can 5 kg (Certified ONU). Aluminum can 32 kg (Certified ONU).
Sample available upon request.

15. Solubilities

Water: Insoluble
Alcohol: Soluble
Fixed Oil: Soluble



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16- Specification

Appearance:	Liquid
Odor:	Characteristic
Color:	Yellow to Brown
Density at 20°C:	0.910 – 0.925
Refractive Index at 20°C:	1.465 – 1.480
Peroxide value (meq O ₂ /Kg):	< 30
Acid value (mg KOH/g):	< 10
Iodine value (g/100g):	Not specified
Saponification value (mg KOH/g):	Not specified
Unsaponifiable matter (%):	Not specified
Water content (%):	Not specified
Flash Point (°C)	> 100
PH (Pure Product):	Not specified
Heavy Metals Content:	No heavy metals and inorganic compounds
Total aerobic Germs:	No reproducible microorganisms

The data sheet provides the information of the related product on the date indicated, but does not liable for ensuring the product's properties during the period specified and does not give rise to any contractual legal tie. The essential preliminary tests must be conducted to ensure the suitability of the product for each intended use. The user's attention is drawn to the possible hazards incurred when a product is used for other purposes than those for which it is designed. The user shall be entirely responsible for the necessary precautions taken to the use of the products. The information mentioned in this data sheet does not exempt the user from ensuring other obligations pursuant to laws or regulations other than those indicated relating to the possession and manipulation of the product.