

TECHNICAL DATA SHEET

Effective date: 06.2020

Calendula CO₂ Extract

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Calendula officinalis flower extract
Botanical name	Calendula officinalis L.
Manufacturing process	By supercritical fluid extraction with natural carbon dioxide
Description	Contains all CO ₂ -soluble lipophilic components, 100% natural, it contains no additives and no other technical adjuncts, it is not blended and not formulated.
Part used	Dried flowers
Content of essential oil	2,0 %
Components	Pentacyclic triterpene alcohols and triterpendiol monoesters including 17 - 25 % faradiol esters esterified with mainly myristic- and palmitic acids. Faradiol esters have a significant anti-inflammatory effect. Other ingredients are sterols, carotenes and cuticular waxes.

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Physical parameters

Appearance	Waxy consistency at room temperature, liquid at 40°C
Color	Dark red - brown
Odor	Characteristic, hay-like
Relative density at 20°C	NA
Refractive index at 20°C	NA
Optical rotation at 20°C	NA
pH	NA
Solubility	NA

Chemical parameters

Sum of Carotenoids (calc. as β -Carotene)	0,7 – 1,4 %
Content of Faradiol ester	17 – 25 %
Sum of Sterols (calc. as Sitosterol)	1,4 %
Sum of Taraxasterol and Amyrin (calc. as Sitosterol)	9,4 %

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TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in tightly closed original container, protected from light and moisture
Shelf Life	48 months under good storage conditions
Custom tariff	-

LEGISLATION

Certification	Cosmos compliant
Halal status	Certified by Halal Certification Services (HCS)
Kosher status	Certified by London Beth Din Kashrut Division (KLBD)
EINECS	283-949-5
CAS	84776-23-8

DISCLAIMER

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