

**TECHNICAL DATA SHEET**

Effective date: 06.2020

Marigold 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.

TECHNICAL DATA**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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Marigold CO₂ Extract**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

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.