

container & conditions

temperature

from 5 °C to 21 °C

18 months, as per recommended storage conditions

Specification Sheet

CEDRAT OIL ITALY		Ref. 16980
Version 11RME01 - Revision Date: (October 26, 2023	Page 1/1
L. PRODUCT		
1 Product identifier		
product trade name	Cedrat Oil Italy - Ref. 16980	
relevant identified uses	flavouring agent	
botanical origin	Citrus medica, (L)	
production process	obtained by cold pressing fresh citron fruits	
status	100% Natural Complex Substance	
EC name	Citrus medica, ext.	
EC number	285-359-3	
CAS number (EC inventory)	85085-28-5	
Other CAS number	68991-25-3 / 92346-90-2	
CoE number	2035	
PHYSICAL AND CHEMIC	AL PROPERTIES	
Organoleptic characteristics		
appearance & color	liquid - yellow to dark yellow/greenish	
odor	typical of cedrat oil - green, peely citrus r	note
Physical & chemical data		
analysis	ranges	instruments
relative density d 40	0.8430 ÷ 0.8530	ANTON PAAR - DMA 4500
relative density $d^{\frac{20}{20}}$	0.8445 ÷ 0.8545	ANTON PAAR - DMA 4500
optical rotation $a^{20}_{\hspace{0.05cm} \scriptscriptstyle D}$	+48.00° ÷ +58.00°	Optical Activity - POLAAR 20
refractive index $n_{\scriptscriptstyle D}^{\scriptscriptstyle 20}$	1.4700 ÷ 1.4800	ANTON PAAR - RXA 170
peroxides	≤20 mmol/l	CDR - FoodLab
flash point	52 °C (126 °F)	GRABNER - Miniflash FLP
solubility	alcohol - other oils	-
3 Key peaks		
common name	ranges	instruments
limonene	52.00% ÷ 62.00%	GC - internal method
linalool	≤1.50%	GC - internal method
citronellal	≤0.20%	GC - internal method
citronellol	≤0.10%	GC - internal method
citral	2.5% ÷ 6.00%	GC - internal method
geraniol	≤0.60%	GC - internal method
bergaptene	≤10 ppm	HPLC - internal method
furocoumarins	≤2500 ppm	HPLC - internal method
CERTIFICATIONS		
1 Statements		
Food & Natural (EU - US)	this product is solvents, preservatives and other technical adjuvants free; it is a 100% natural flavouring agent	
100d & 14dtarar (20 00)	obtained by physical processes only from one botanical source [Citrus medica, (L)], according to Reg. (EC) N	
	1334/2008 Art. 3 (2)(d) & Code of Federal Regulation (CFR) Title 21 - 101.22 (a)(3)	
Food Allergens Free	this product is single-ingredient , it is a 100% natural flavouring agent obtained by physical processes only from	
1 00d Allergens Tree	one botanical source [Citrus medica, (L)] and it does not contain any food allergens listed in the Annex II of	
	Reg. (EU) Nr. 1169/2011	
GMO Free	this product has been extracted from non-genetically modified plants; no enzyme and/or no GMO enzymes has been	
5.15 1166	used during the production process and consequently, with reference to Regulations (EC) 1829/2003 and	
	1830/2003, it does not contain GMO or GMO-derived product.	
FEMA GRAS	this product is a 100% natural flavoring agent obtained only by physical processes from one botanical source i.e	
I LINA GIVAS	Citrus medica, (L) and all its naturally presents components are FEMA GRAS Flavouring Substances.	
CTODACE / CUELELIEE	Cicias medica, (L) and an its flaturally pro	components are reing dividenting substances.
STORAGE / SHELF LIFE		
1 Precautions for safe storage		

to be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum head space, protected from day-light in a dry, aerated place, away from any heat source and ignition source