



SPECIFICA TECNICA

Prodotto **GLICEROLO VEGETALE FU-Ph.Eur.**

NOME INCI	Glycerin
NOME INCI USA	Glycerin
CAS	56-81-5
EINECS / ELINCS	200-289-5
FORMULA	C3 H8 O3
PESO MOLECOLARE	92,0

SPECIFICA	METODO	Lim. Inf. - Lim. Sup.	u.m.
Aspetto	Ph.Eur.	Liquido sciropposo, incolore o quasi incolore, limpido, molto igroscopico	
* Solubilità		Miscibile con acqua e con l'alcol, poco solubile in acetone, praticamente insolubile in oli, grassi e di oli essenziali	
<i>Identificazione</i>			
- Identificazione A: Indice di rifrazione		Conforme al test	
- Identificazione B: IR	Ph.Eur.	conforme al test	
Aspetto della soluzione	Ph.Eur.	Limpida e incolore	
Acidità o alcalinità	Ph.Eur.	<=0,20	ml NaOH
Indice di rifrazione	Ph.Eur.	1,4700 - 1,4750	°
Aldeidi	Ph.Eur.	<=10	ppm
Esteri	Ph.Eur.	>=8,00	ml HCl 0.1
* Numero di saponificazione		<=0,024	% Na2O
Metalli pesanti	Ph.Eur.	<=5	ppm
Cloruri	Ph.Eur.	<=10	ppm
Zuccheri	Ph.Eur.	Conforme al test	
Acqua	Ph.Eur.	<=2,00	%
Ceneri solforiche	Ph.Eur.	<=0,010	%
<i>Sostanze Correlate</i>			
- Impurezza A	Ph.Eur.	<=0,10	%
- Ogni altra impurezza con R(T) < Glicerolo	Ph.Eur.	<=0,10	%
- Impurezze totali con R(T) > Glicerolo	Ph.Eur.	<=0,50	%
Titolo (EP)	Ph.Eur.	98,00 - 101,00	%
Composti alogenati	Ph.Eur.	<=35	ppm



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* Densità		$\geq 1,2490$	g/ml
* Colore		$\leq 10,0$	APHA
Identificazione IR		Positiva	
* Contenuto di glicerolo		$\geq 99,50$	%
* Acidità		$\leq 0,08$	meq/100g
* Odore		Conforme	
* Titolo (USP)		99,00 - 101,00	%
* Identificazione C (Test acido nitrico)		Conforme	
* Identificazione D (Test acroleina)		Conforme	
* Identificazione B (USP)		Conforme	
* Identificazione C (USP)		Conforme	
* Residuo all'ignizione (USP)		$\leq 0,01$	%
* Cloruri (USP)		$\leq 0,001$	%
* Solfati (USP)		$\leq 0,002$	%
* Metalli pesanti (USP)		≤ 5	ppm
* Composti clorurati (USP)		$\leq 0,003$	%
* Impurezze organiche volatili (USP)		Conforme	
* Acidi grassi e esteri (USP)		$\leq 1,0$	ml
* Ogni altra impurezza (tranne DEG) (USP)		$\leq 0,1$	%
* Impurezze totali (USP)		$\leq 1,0$	%
* Glicole dietilenico (USP)		$\leq 0,025$	%
* Glicole etilenico (USP)		$\leq 0,025$	%
Revisione Capitolato		2	
Data Approvazione		25/03/2014	

* saggi non obbligatori



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The product is manufactured in CEE

Origine of product: synthesis from vegetable raw materials (fatty acid)

The product does not contain or are derived from raw materials containing GMOs

The product is gluten free.

The product does not contain latex.

The product is not irradiated.

The product is free from residual solvents

The product does not contain phthalates.

The product is DMF-free.

Absence of lactose, latex and gluten

The product is free from substances prohibited or restricted by Reg CEE n.1223/2009

The product is free from pesticides and products CMR listed in Annex II and III of Directive 2005/80/EC and 2003/53/CE amending Directive Cosmetic 76/768/EC

The product does not contain nanomaterials, according to CE Regulation n.1223/2009 (new cosmetic regulation)

Altri dati:

Melting point	18°C
Boiling point	290°C at 1013 hPa
Vapour pressure (measured)	0.000106 hPa at 25 °C (calculated) and 0.0033 hPa at 50°C
n-octanol/water partition coefficient	log Kow - 1.76
Dissociation constant	0.07E-13
Flash point	160°C
Autoflammability	393°C
Viscosity	1410 mPa s at 20°C
Surface tension	63.4 mN/m at 20°C
Dioxan	Absent

Melting point of Glycerol - Water solution:

Glycerol by weight	%	Melting point °C	Glycerol by weight	Melting point °C
0.0		0.0	65.0	- 43.0
5.0		- 0.6	65.6	- 44.5
10.0		- 1.6	66.0	- 44.7
11.5		- 2.0	66.7	- 46.5
15.0		- 3.1	67.1	- 45.5
20.0		- 4.8	67.3	- 44.5



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22.6	- 6.0	68.0	- 44.0
25.0	- 7.0	70.0	- 38.9
30.0	- 9.5	70.9	- 37.5
33.3	- 11.0	75.0	- 29.8
35.0	- 12.2	75.4	- 28.5
40.0	- 15.4	79.0	- 22.0
44.5	- 18.5	80.0	- 20.3
45.0	- 18.8	84.8	- 10.5
50.0	- 23.0	85.0	- 10.9
53.0	- 26.0	90.0	- 1.6
55.0	- 28.2	90.3	- 1.0
60.0	- 34.7	95.0	7.7
60.4	- 35.0	95.3	7.5
64.0	- 41.5	98.2	13.5
64.7	- 42.5	100.	17.0

È esente da additivi non dichiarati e dai 26 allergeni – *is free of undeclared additive and 26 allergen*

2-benzylidèneheptanal	122-40-7	Nessuna - none
Alcool benzylique	100-51-6	Nessuna - none
Alcool cinnamylique	104-54-1	Nessuna – none
Citral	5392-40-5	Nessuna – none
Eugenol	97-53-0	Nessuna – none
7-hydroxycitronellal	107-75-5	Nessuna – none
Isoeugèol	97-54-1	Nessuna – none
2-pentyl-3-phénylprop-2-ène-1-ol	101-85-9	Nessuna – none
Salicylate de benzyle	118-58-9	Nessuna – none
Cinnamaldéhyde	104-55-2	Nessuna – none
Coumarine	91-64-5	Nessuna – none
Geraniol	106-24-1	Nessuna – none
4-(4-hydroxy-4-methyl-pentyl)cyclohex-3-Enecarbaldehyde	31906-04-4	Nessuna – none
Alcool 4-methoxybenzylique	105-13-5	Nessuna – none
Cinnamarate de benzyle	103-41-3	Nessuna – none
Farnesol	4602-84-0	Nessuna – none
2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	Nessuna – none
Linalol	78-70-6	Nessuna – none
Benzoate de benzyle	120-51-4	Nessuna – none
Citronellol	106-22-9	Nessuna – none
a-hexylcinnamaldehyde	101-86-0	Nessuna – none
(R)-p-mentha-1,8-diene	5898-27-5	Nessuna – none
Oct-2-ynoate de methyle	111-12-6	Nessuna – none
3-methyl-4-(2,6,6-trimethyl-2-cyclohexene-1-yl)-3-butene-2-one	127-51-5	Nessuna – none
Evernia prunastri, extraits	90028-68-5	Nessuna – none
Evernia furfuracea, extraits	90028-67-4	Nessuna - none



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MAIN ALLERGENS	PRESENCE (YES / NO)	QUANTITY (ppm) in case of presence
Sulphur dioxide and sulfites (specify quantity if higher than 10 ppm or 10 mg / kg)	No	
Peanut seed and derived products (including oil)	No	
Cashew - nut (including oil)	No	
Walnut (including oil)	No	
Hazelnut (including oil)	No	
Brazil walnut (including oil)	No	
Pecan nut (including oil)	No	
Macadamia nut (including oil)	No	
Pistachio - nut (including oil)	No	
Pine kernel (including oil)	No	
Almond (including oil)	No	
Eggs and derived products	No	
Shellfish and derived products	No	
Fishes – crustaceans and derived products	No	
Soya and derived products (including lecithin..)	No	
Gluten (specify quantity) of following origin	No	
▪ Wheat	No	
▪ Rye	No	
▪ Barley	No	
▪ rustic wheat (lat. spelta)	No	
▪ oat	No	
▪ hybrid species and derived products from	No	
Milk	No	
Dairy products including lactose (specify)	No	
Sesame seed and derived products (including oil)	No	
Lupin (lat. lupinus) and derived products	No	
Celery and derived products	No	
Mustard and derived products	No	



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Individual metal analysis is done each quarter by an external laboratory. The distillation process is controlled and no cross contamination with metals can happen during the processing, storage or drumming.

METALS	Metals	Typical values
Aluminium	Al	< 1mg/kg
Arsenic	As	< 1mg/kg
Barium	Ba	< 1mg/kg
Cadmium	Cd	< 0.1mg/kg
Calcium	Ca	< 10mg/kg
Chrome	Cr	< 1mg/kg
Cobalt	Co	< 1mg/kg
Copper	Cu	< 1mg/kg
Iron	Fe	< 1mg/kg
Lead	Pb	< 0.1mg/kg
Magnesium	Mg	< 10mg/kg
Manganese	Mn	< 1mg/kg
Mercury	Hg	< 0.1mg/kg
Molybdenum	Mo	< 1mg/kg
Nickel	Ni	< 1mg/kg
Potassium	K	< 10mg/kg
Selenium	Se	< 1mg/kg
Silver	Ag	< 1mg/kg
Sodium	Na	< 10mg/kg
Tin	Sn	< 1mg/kg
Titan	Ti	< 1mg/kg
Zinc	Zn	< 1mg/kg