

Reference Product Specification

General Information

Product name:	Sunflower Fatty Acids
Product grade:	GMP+ FSA assured, Number: 2.217
Product description:	Fatty acids obtained from sunflower oil soapstock, feed grade
Intended purpose/application:	For further processing in feed supplement production
Regulatory reference:	DSTU 4860:2007 Fatty acids obtained from light oil soap stock. Standard Specification. European Parliament and European Council (EC) Regulation No. 767/2009
Certification compliance:	GMP+ B1 (feed-grade)

Physical characteristics

Appearance:	opaque oily liquid
Color, at 20°C:	brown
Odor:	characteristic of fatty acids
Impurities and foreign matter:	<u>Foreign matter:</u>
	Glass not allowed
	Packaging material not allowed
	Wood not allowed
	Plastic not allowed
	Sand not allowed
	Stones not allowed
	Metal not allowed

Chemical characteristics

Oleic acid decomposition depth, % (not less than):	55.0
Total fat content, % by weight (not less than):	97.0
Moisture and volatiles content, % by weight (not more than):	2.0
Linoleic acid content, % by weight (not less than):	50.0
Mineral acids:	none allowed
Unsaponifiable matter, % (not more than):	1.5
Insoluble impurities, % (not more than):	1.0

Safety Indicators

Mercury (Hg), mg/kg (not more than):	0.05
Cadmium (Cd), mg/kg (not more than):	0.30
Arsenic (As), mg/kg (not more than):	1.00
Lead (Pb), mg/kg (not more than):	3.0
Copper (Cu), mg/kg (not more than):	3.0
Zinc (Zn), mg/kg (not more than):	5.0
B ₁ Aflatoxin, mg/kg (not more than):	0.02
Dioxin, ng (not more than): (WHO-PCDD/F-TEQ/ kg)	0.5
Dioxin-like, ng (not more than): (WHO-PCDD/F-PCB-TEQ/kg)	0.5
Non-dioxin-like (PCB28, PCB52, PCB101, PCB138, PCB153, PCB180), µg/kg (not more than):	10.0
Sum of dioxins and dioxin-like PCBs [WHO-PCDD/F-PCB-TEQ/kg (2005)], ng (not more than):	1.0
Zearalenon, mg/kg (not more than):	0.1
Polycyclic Aromatic Hydrocarbons (PAH4), µg/kg NMT:	160
Hydrocarbons (C10-C40), mg/kg NMT:	1,000
<u>Radionuclides:</u>	
Cs-137 specific activity, Bq/kg (not more than):	600
Sr-90 specific activity, Bq/kg (not more than):	100

Manufacturer:

Private Enterprise "Viktor & K"
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Kirovograd Region, 27552 Ukraine

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Microbiological characteristics	
Enterobacteria:	none allowed
Salmonellae:	none allowed
Mold or yeast fungi:	none allowed
Packaging, storage and shipping	
Storage conditions:	Acid-proof tanks equipped with a heat-proof protective jacket
Transportation conditions:	To be transported inside dry, clean tanks without foreign odors with tightly closed hatches and in accordance with GMP+
Safety labeling:	Shipping container labeling as per GOST 14191-96 (cargo labeling). The label is to include the "Protect from moisture" handling precaution as per GOST 14492
Useful life	3 (three) months from manufacture date.
Packaging:	none, bulk liquid
Shipping options:	tank trucks

This is a reference product specification, provided for informational purposes only. To the best of our knowledge, all data, parameter values, and other data are correct and true, however, no guarantees can be given to that effect. The actual product specifications are subject to change without notice and can only be bindingly defined in a contractual agreement.

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