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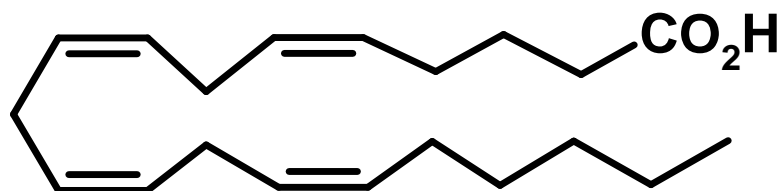
Product Specification - Extended

Arachidonic Acid (winterized to +5°C)

CAS 506-32-1

Syn: (all-*Z*)-5,8,11,14-Eicosatetraenoic Acid

Structure:



Mol. Formula
Source

C₂₀H₃₂O₂
Mortierella alpina

Mol. Wt.

304.47

<i>Test</i>	<i>Typical Analysis</i>
Identity	IR
Appearance	Free-flowing, light-yellow to yellow oil
Assay	
Myristic Acid, C14:0	~ 0.3 %
Pentadecanic Acid, C15:0	~ 0.1 %
Palmitic Acid, C16:0	8-10 %
Palmitoleic Acid + Isms, C16:1	~ 0.4 %
Margaric Acid, C17:0	~ 0.4 %
Octadecanoic, C18:0	8-12 %
Oleic Acid, C18:1	7-12 %
Vaccenic Acid, C18:1	~ 0.2 %
Linoleic Acid, C18:2	6-10 %
<i>trans,cis</i> - C18:2	6-10 %
<i>trans,trans</i> - C18:2	~ 0.1 %
γ-Octadecatrienoic Acid, C18:3 (6,9,12)	~ 3.0 %

- *cont'd* -

cont'd -

<i>Test</i>	<i>Typical Analysis</i>
α -Linoleic Acid, C18:3 (9,12,15)	~ 0.1 %
Arachidic Acid, C20:0	~ 1.0 %
Eicosenoic Acid, C20:1	~ 0.8 %
Eicosadienoic Acid, C20:2	~ 0.8 %
Podocapric Acid, C20:3	2-4 %
Arachidonic Acid, C20:4	40-46 %
Eicosapentaenic Acid, C20:5	~ 0.3 %
Behenic Acid, C22:0	~ 0.6 %
C22:1	~ 1.9 %
C23:0	~ 0.6 %
C24:0	~ 1.6 %
C24:1	~ 0.4 %
Total Saturated Fatty Acids	~ 24 %
Total Mono-unsaturated Fatty Acids	~ 15 %
Total Poly-unsaturated Fatty Acids	~ 61 %
Total <i>trans</i>-Fatty Acids	~ 0.2 %
Total content of All Other Fatty Acids (The individual content of all other FA components is < 0.1%)	< 1%
Peroxide Value	< 5 meq/Kg
Lead	< 0.5 ppm
Arsenic	< 0.5 ppm
Copper	< 0.2 ppm
Mercury	< 0.2 ppm
Iron	< 1 ppm
$d_{20}^{\circ C}$	0.90 g/mL
Total Energy Content	9.4 Kcal/g

This product is suitable for use in food products, including baby formula.

Storage: The product, in the sealed original packaging, should be stored in at 0° to -10 °C. Under these conditions, the shelf-life of **Arachidonic Acid** is 24 mo. Transportation and storage at ambient temperatures for short periods of time will not impact the shelf-life.

Non-GMO: This product is derived from a non-GMO source as designed under EP regulations 1829/2003 and 1830/2003.

TSE/BSE: The source of this product is *Mortierella alpina*. During production, storage and transport, all contact with any material of animal origin was excluded. Therefore, the requirements set forth in of the EP comm. Directive 1999/EEC, CPMP/BWP/1230/98, and EP 01/200/: 50208 do not apply.

Stability: The product is sensitive to air, heat and light and should be used as soon as possible after opening.