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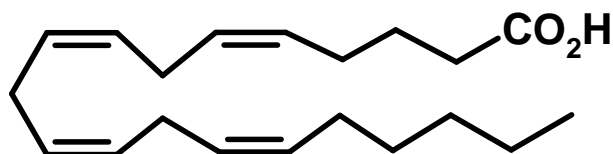
Product Specification - Extended

Arachidonic Acid

CAS 506-32-1

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

Structure:



Mol. Formula
Source

C₂₀H₃₂O₂
Mortierella alpina

Mol. Wt.

304.47

Test

Typical Analysis

Identity

IR

Appearance

Free-flowing, light-yellow to yellow oil

Assay

Lauric Acid, C12:0	0.1 %
Myristic Acid, C14:0	4.2 %
Pentadecanic Acid, C15:0	0.6 %
Palmitic Acid, C16:0	13.5 %
Palmitoleic Acid + Isms, C16:1	3.6 %
Margaric Acid, C17:0	0.1 %
Octadecanoic , C18:0	0.6 %
Oleic Acid, C18:1	0.2 %
Vaccenic Acid, C18:1	3.5 %
Linoleic Acid, C18:2	0.1 %

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<i>Test</i>	<i>Typical Analysis</i>
<i>trans,cis</i> - C18:2	0.1 %
<i>trans.trans</i> - C18:2	0.1 %
γ -Octadecatrienoic Acid, C18:3 (6,9,12)	0.3 %
α -Linoleic Acid, C18:3 (9,12,15)	0.1 %
<i>trans,cis,trans</i> - C18:3	0.1 %
Arachidic Acid, C20:0	0.1 %
Eicosatrienoic Acid, C20:3	0.5 %
Arachidonic Acid, C20:4	40.5 %
Eicosapentaenic Acid, C20:5	3.9 %
Behenic Acid, C22:0	0.1 %
Docosapentaenic Acid, C22:5	4.2 %
Docosahexaenic Acid, C22:6	1.9 %
Total Saturated Fatty Acids	19.7 %
Total Mono-unsaturated Fatty Acids	7.3 %
Total Poly-unsaturated Fatty Acids	51.6 %
Total <i>trans</i>-Fatty Acids	0.3 %
All Other Fatty Acids	21.1 %
Peroxide Value	< 5 meq/Kg
Lead	< 0.5 ppm
Arsenic	< 0.5 ppm
Copper	< 0.2 ppm
Mercury	< 0.2 ppm
Iron	< 1 ppm
$d_{20}^{\circ}\text{C}$	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.