

PRODUCT DATA SHEET

Eicosenoic acid (*cis*-11)

Catalog number: 1032

Synonyms: C20:1 (*cis*-11) Fatty acid;
Gondoic acid

Source: natural, plant

Solubility: chloroform, hexane, ethyl ether

CAS number: 5561-99-9

Molecular Formula: C₂₀H₃₈O₂

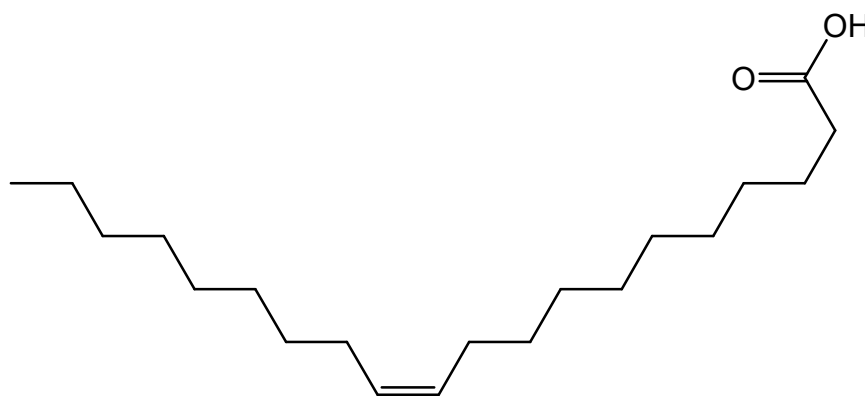
Molecular Weight: 311

Storage: -20°C

Purity: TLC: 99%, GC >99%

TLC System: hexane/ethyl ether/acetic acid, (80:20:1)

Appearance: liquid



Application Notes:

This high purity monounsaturated fatty acid is ideal as a standard and for biological systems.¹ Eicosenoic acid is formed by the elongation of oleic acid and can then be converted to docosenoic acid and nervonic acid. It is found in many plants and animals in small amounts although in some marine fish it is one of the major fatty acids. Eicosenoic acid is found in the membrane of red blood cells and the concentration is higher in children with autism making it an important biomarker.² Eicosenoic acid is also found in bone marrow aspirates and phospholipids.³

Selected References:

1. Y. Ando and T. Sasaki "GC Separation of *cis*-Eicosenoic Acid Positional Isomers on an Ionic Liquid SLB-IL100 Stationary Phase" *J Am Oil Chem Soc*, vol. 88 pp. 743-748, 2011
2. L. Jin et al. "Fatty acid compositions of red blood cell phospholipids in children with autism" *Prostaglandins Leukot Essent Fatty Acids*, vol. 74 pp. 215-221, 2006
3. S. Nozawa et al. "Analysis of fatty acid composition in human bone marrow aspirates" *Keio J Med*, vol. 54 pp. 150-155, 2005

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