



Formula: C18H30O2

MW: 278.43

CAS: 463-40-1

TNP NUMBER: TNP00563

MDL NUMBER: MFCD00065720

IUPAC: (9Z,12Z,15Z)octadeca-9,12,15-trienoic acid

Smiles: C(CC=C/CC=C/CC=C/CC)CCCCC(=O)O

Liquid

occurs as glyceride in most drying oils

THERAPEUTIC CATEGORY: Nutrient, essential fatty acid

ACCEPTORS: 2

DONORS: 1

ROTATION BONDS: 14

N+O: 2

Chiral Centers: 0

LogP: 6.92

LogS: -5.38

LIPINSKI: 3

Synonyms: OCTADECA-9Z,12Z,15Z-TRIENOIC ACID;(Z,Z,Z)-9,12,15-Octadecatrienoic acid;9,12,15-OCTADECATRIENIC ACID;9,12,15-OCTADECATRIENOIC ACID;9Z,12Z,15Z-OCTADECATRIENOIC ACID;ALPHA-LINOLENIC ACID;ALPHA-LNN;ALL CIS-9,12,15-OCTADECATRIENOIC ACID

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EINECS:207-334-8

Product Categories:Fatty & Aliphatic Acids, Esters, Alcohols & Derivatives;Biochemistry;Higher Fatty Acids & Higher Alcohols;Unsaturated Higher Fatty Acids Linolenic acid

Chemical Properties: mp -11 C(lit.) bp 230-232 C1 mm Hg(lit.) density 0.914 g/mL at 25 C(lit.) refractive index n_{20/D} 1.480(lit.) FEMA 3380 Fp >230 F storage temp. 2-8C Water Solubility INSOLUBLE Merck 5506

CAS DataBase Reference: 463-40-1(

CAS DataBase Reference:) NIST Chemistry Reference9,12,15-Octadecatrienoic acid, (Z,Z,Z)-(463-40-1) EPA Substance Registry System9,12,15-Octadecatrienoic acid, (9Z,12Z,15Z)-(463-40-1)

Safety Information: Risk Statements 36/37/38 Safety Statements 26-36 WGK Germany 1 F 8-10-23 Linolenic acid Linolenic acid

Usage And Synthesis:

Chemical Properties: clear light yellow to yellow liquid General DescriptionClear colorless liquid. Air & Water ReactionsOxidizes in air to form peroxides, which spontaneously ignite. Insoluble in water. Sensitive to heat and moisture. Reactivity ProfileLinolenic acid is incompatible with bases, oxidizing agents and reducing agents. Also incompatible with peroxides, oxygen and water. Fire HazardLinolenic acid is probably combustible. Linolenic acid



