



Formula: C₂₀H₃₂O₂

MW: 304.47

CAS: 506-32-1

TNP NUMBER: TNP00549

MDL NUMBER: MFCD00004417

IUPAC: (5Z,8Z,11Z,14Z)icosa-5,8,11,14-tetraenoic acid

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

from porcine liver, liquid, cell culture tested

THERAPEUTIC CATEGORY: Nutrient, Essential fatty acid

ACCEPTORS: 2

DONORS: 1

ROTATION BONDS: 15

N+O: 2

Chiral Centers: 0

LogP: 7.61

LogS: -5.74

LIPINSKI: 3

Synonyms: (5Z,8Z,11Z,14Z)-5,8,11,14-Icosatetraenoic acid;(all-Z)-5,8,11,14-Eicosatetraenoic acid;(all-z)-5,8,11,14-eicosatetraenoicacid;5,8,11,14-Eicosatetraenoic acid, (all-Z)-;Arachidonate;5,8,11,14-ALL-CIS-EICOSATETRAENOIC ACID;5,8,11,14-EICOSATETRAENOIC ACID;5,8,11,14-EICOSATETRENOIC ACID

CAS:506-32-1

MF:C20H32O2

MW:304.47

EINECS:208-033-4

Product Categories:Industrial/Fine Chemicals;Fatty & Aliphatic Acids, Esters, Alcohols & Derivatives;Mixed Fatty Acids;Higher Fatty Acids & Higher Alcohols;Unsaturated Higher Fatty Acids;Biochemistry;Fatty Acid Derivatives & Lipids;Glycerols Arachidonic acid

Chemical Properties: mp -49 C(lit.) bp 169-171 C0.15 mm Hg(lit.) density 0.922 g/mL at 25 C(lit.) refractive index n₂₀/D 1.4872(lit.) Fp >230 F storage temp. -20C solubility ethanol: =10 mg/mL form oil color colorless to light yellow Water Solubility PRACTICALLY INSOLUBLE Merck 765

CAS DataBase Reference: 506-32-1(

CAS DataBase Reference:) NIST Chemistry ReferenceArachidonic acid(506-32-1)

Safety Information: Risk Statements 19 Safety Statements 24/25 WGK Germany 3 RTECS CE6675000 F 8-10-23 Icosa-5,8,11,14-tetraenoic acid Arachidonic acid

Usage And Synthesis:

Chemical Properties: liquid UsageAn unsaturated omega-6 fatty acid constituent of the phospholipids of cell membranes Biological ActivityEndogenous free fatty acid released from phospholipids by phospholipase A 2 . Important cellular signaling mediator and precursor of eicosanoids. Metabolized by lipoxygenases, cyclooxygenases and cytochrome P450 monooxygenases. Arachidonic acid



