

Product Data Sheet

Product Name: 13(E)-Docosenoic Acid

Cat. No.: GC18280

Chemical Properties

Cas. No. 506-33-2

Chemical Name 13E-docosenoic acid

SMILES CCCCCCCC/C=C/CCCCCCCCCCCCC(O)=O

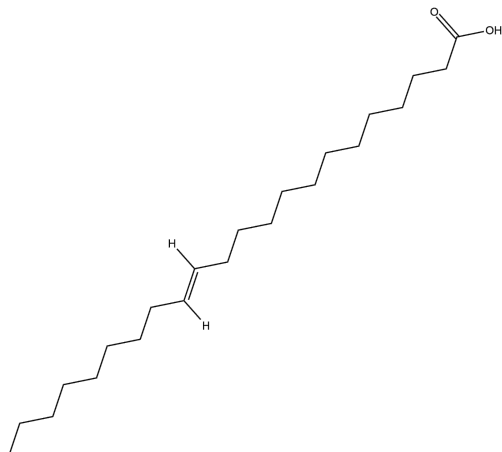
Formula $C_{22}H_{42}O_2$ M.Wt 338.6

Solubility 100mg/mL in DMSO or in DMF Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

13(E)-Docosenoic Acid, a trans-acid, is a 22-carbon monounsaturated fatty acid [1]. 13(E)-Docosenoic Acid can react with primary amines, secondary amines, as well as aliphatic and aromatic amines to synthesize a series of novel amide compounds, which are widely used as the corrosion inhibitors[2]. 13(E)-Docosenoic Acid can be used as a model compound to develop gas

Caution: Product has not been fully validated for medical applications. For research use only.

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chromatography methods for the separation of related compounds^[3].

References:

- [1] Astorg P O. Heart lipidosis induced by short-term feeding of cis-or trans-docosenoic acids in weanling or 7-week-old rats[J]. Annals of Nutrition and Metabolism, 1981, 25(4): 201-207.
- [2] Elsharif A M, Abubshait S A, Abdulazeez I, et al. Synthesis of a new class of corrosion inhibitors derived from natural fatty acid: 13-Docosenoic acid amide derivatives for oil and gas industry[J]. Arabian Journal of Chemistry, 2020, 13(5): 5363-5376.
- [3] Shimizu K, Ando Y. Gas chromatographic separation of docosenoic acid positional isomers on an SLB-IL100 ionic liquid column[J]. Journal of Oleo Science, 2012, 61(8): 421-426.

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