



>>Entry Name: Docosanoic acid

Synonym(s): Behenic acid

CAS Registry Number: 112-85-6

Related CAS Registry Numbers(s): 2489-05-6 5331-77-1

Type of Compound Code(s): VA0300

$\text{H}_3\text{C}(\text{CH}_2)_{20}\text{COOH}$

Molecular Formula: $\text{C}_{22}\text{H}_{44}\text{O}_2$

Molecular Weight: 340.588

Accurate Mass: 340.33413

Percentage Composition: C 77.58%; H 13.02%; O 9.40%

Biological Source: Occurs in *Lophira alata* kernel fat, carnauba wax and *Mimusops elengi* seed oil

Melting Point: Mp 81-82°

Solubility: BERDY SOL: Sol. CHCl_3 , hexane; poorly sol. H_2O

Aldrich: 21694-1

Fluka: 11930

Rare Chemicals Library: S60323-6

Sigma: B2250

>>Derivative: Me ester

CAS Registry Number: 929-77-1

Type of Compound Code(s): VA0350

Molecular Formula: $\text{C}_{23}\text{H}_{46}\text{O}_2$

Molecular Weight: 354.615

Accurate Mass: 354.34978

Percentage Composition: C 77.90%; H 13.07%; O 9.02%

Biological Source: Constit. of *Cassia javanica* leaves

Melting Point: Mp 54°

Aldrich: 85527-8

Fluka: 11940

Sigma: B3271

>>Derivative: Et ester

CAS Registry Number: 5908-87-2

Molecular Formula: $\text{C}_{24}\text{H}_{48}\text{O}_2$

Molecular Weight: 368.642

Accurate Mass: 368.36543

Percentage Composition: C 78.20%; H 13.12%; O 8.68%

Melting Point: Mp 50°

Boiling Point: Bp₁₀ 240-242°. Bp_{0.2} 185°

Sigma: B5130

>>Derivative: Docosyl ester

Synonym(s): Docosyl docosanoate. Behenyl behenate

CAS Registry Number: 17671-27-1

Type of Compound Code(s): VA0370

Molecular Formula: $\text{C}_{44}\text{H}_{88}\text{O}_2$

Molecular Weight: 649.178

Accurate Mass: 648.67843

Percentage Composition: C 81.41%; H 13.66%; O 4.93%

Biological Source: Constit. of *Chamaecyparis formosensis* and *Fagonia cretica*

Physical Description: Cryst.

Melting Point: Mp 75-76°

Sigma: B3630

Other: PB B00660