



>>Entry Name: 2-Hydroxydocosanoic acid

Synonym(s): 2-Hydroxybehenic acid

CAS Registry Number: 13980-14-8

$\text{H}_3\text{C}(\text{CH}_2)_{19}\text{CH}(\text{OH})\text{COOH}$

Molecular Formula: $\text{C}_{22}\text{H}_{44}\text{O}_3$

Molecular Weight: 356.588

Accurate Mass: 356.329045

Percentage Composition: C 74.10%; H 12.44%; O 13.46%

Sigma: H6021

>>Variant: ($\pm$)-form

Molecular Formula: $\text{C}_{22}\text{H}_{44}\text{O}_3$

Molecular Weight: 356.588

Accurate Mass: 356.329045

Percentage Composition: C 74.10%; H 12.44%; O 13.46%

Biological Source: Constit. of cork

Physical Description: Cryst. (CHCl_3)

Melting Point: Mp 97°

>>Derivative: Me ester

CAS Registry Number: 13980-17-1

Molecular Formula: $\text{C}_{23}\text{H}_{46}\text{O}_3$

Molecular Weight: 370.615

Accurate Mass: 370.344695

Percentage Composition: C 74.54%; H 12.51%; O 12.95%

Physical Description: Cryst. (Et_2O /petrol)

Melting Point: Mp 75°

Sigma: H6146

>>Derivative: Et ester

Molecular Formula: $\text{C}_{24}\text{H}_{48}\text{O}_3$

Molecular Weight: 384.641

Accurate Mass: 384.360345

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Physical Description: Cryst.

Melting Point: Mp 70-71°

>>Derivative: Ac

Molecular Formula: $\text{C}_{24}\text{H}_{46}\text{O}_4$

Molecular Weight: 398.625

Accurate Mass: 398.33961

Percentage Composition: C 72.31%; H 11.63%; O 16.05%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 79°

References:

Zetzsche, F. *et al.*, *Helv. Chim. Acta*, 1931, **14**, 632

Ansari, A.A. *et al.*, *J. Am. Oil Chem. Soc.*, 1976, **53**, 118, (*synth, pmr*)