



>>Entry Name: 1-Tetracosanol

Synonym(s): Lignoceryl alcohol

CAS Registry Number: 506-51-4

$\text{H}_3\text{C}(\text{CH}_2)_{22}\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_{24}\text{H}_{50}\text{O}$

Molecular Weight: 354.658

Accurate Mass: 354.386165

Percentage Composition: C 81.28%; H 14.21%; O 4.51%

Biological Source: Isol. from various plant waxes

Melting Point: Mp 77-79°

Boiling Point: Bp_{0.4} 210°

Fluka: 87100

Sigma: L3507

>>Derivative: Ac

CAS Registry Number: 822-29-7

Molecular Formula: $\text{C}_{26}\text{H}_{52}\text{O}_2$

Molecular Weight: 396.696

Accurate Mass: 396.39673

Percentage Composition: C 78.72%; H 13.21%; O 8.07%

Melting Point: Mp 58-59°

>>Derivative: Octacosanoyl

Synonym(s): Tetracosyl octacosanoate

CAS Registry Number: 80252-40-0

Molecular Formula: $\text{C}_{52}\text{H}_{104}\text{O}_2$

Molecular Weight: 761.392

Accurate Mass: 760.80363

Percentage Composition: C 82.03%; H 13.77%; O 4.20%

Biological Source: Isol. from the cuticle of *Diapheromera femorata*

References:

Bleyberg, W. *et al.*, *Ber.*, 1931, **64**, 2504

Pollard, A. *et al.*, *Biochem. J.*, 1931, **25**, 2111, (*isol*)

Mathis, C. *et al.*, *Phytochemistry*, 1964, **3**, 379, (*isol*)

Dominguez, X.A., *CA*, 1970, **73**, 22153

Knoop, E. *et al.*, *Naturwissenschaften*, 1975, **62**, 37, (*cryst struct*)

Precht, D., *Fette, Seifen, Anstrichm.*, 1976, **78**, 145, (*cryst struct*)

Warthen, J.D. *et al.*, *Insect Biochem.*, 1981, **11**, 467, (*tetracosyl octacosanoate*)