



>>Entry Name: 1-Eicosanol, 9CI

Synonym(s): Arachidic alcohol. 1-Icosanol. Arachic alcohol

CAS Registry Number: 629-96-9

Type of Compound Code(s): VA0100

$\text{H}_3\text{C}(\text{CH}_2)_{18}\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_{20}\text{H}_{42}\text{O}$

Molecular Weight: 298.551

Accurate Mass: 298.323565

Percentage Composition: C 80.46%; H 14.18%; O 5.36%

Biological Source: Constit. of conifer waxes

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 72.5-73°

Boiling Point: Bp₃ 220°

Aldrich: 23449-4

Fluka: 44860

Sigma: A8635

>>Derivative: Formyl

Molecular Formula: $\text{C}_{21}\text{H}_{42}\text{O}_2$

Molecular Weight: 326.562

Accurate Mass: 326.31848

Percentage Composition: C 77.24%; H 12.96%; O 9.80%

Melting Point: Mp 74°

>>Derivative: Ac

Type of Compound Code(s): VA0150

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: Constit. of *Bombus* spp. head secretions

Physical Description: Cryst. (Me_2CO aq.)

Melting Point: Mp 40°

References:

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Levene, P.A. *et al.*, *J. Biol. Chem.*, 1924, **59**, 905, (*synth*)

Heilbron, I.M. *et al.*, *J.C.S.*, 1941, 344, (*isol*)

Karrer, W. *et al.*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 90

Bergström, G. *et al.*, *Chem. Scr.*, 1973, **4**, 231, (*isol*)

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