



>>Entry Name: 2,4-Octadien-1-ol

ENTRY UNDER REVIEW

Related CAS Registry Numbers(s): 119518-99-9 119519-00-5

H3CCH2CH2CH=CHCH=CHCH2OH

Molecular Formula: C₈H₁₄O

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

>>Variant: (2*E*,4*E*)-form

Synonym(s): FEMA 3966

CAS Registry Number: 18409-20-6

Molecular Formula: C₈H₁₄O

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

Biological Source: Constit. of the flowers of *Michelia champaca*

Physical Description: Mobile liq. with pleasant fruity odour

Boiling Point: Bp₂ 70-73°

Refractive Index: n_D²⁵ 1.4865

>>Variant: (2*E*,4*Z*)-form

CAS Registry Number: 56904-85-9

Molecular Formula: C₈H₁₄O

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

Use/Importance: Intermed. in the synth. of 10,12-Hexadecadien-1-ol [CQD21-X](#)

Boiling Point: Bp_{0.1} 48°

Refractive Index: n_D²⁰ 1.4912

>>Derivative: Ac

CAS Registry Number: 56904-76-8

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Biological Source: Constit. of the scent gland secretions of the lygaeid bug *Spilostethus rivularis*

Boiling Point: Bp_{0.7} 67°

References:

- Jacobsen, M., *J.A.C.S.*, 1956, **78**, 5084, (*synth*)
Games, D.E. *et al.*, *Experientia*, 1973, **29**, 532, (*isol*)
Commerçon, A. *et al.*, *Tetrahedron*, 1980, **36**, 1215, (*synth, ir, pmr*)
Tsuboi, S. *et al.*, *J.O.C.*, 1982, **47**, 4478, (*synth, cmr*)
Staddon, B.W. *et al.*, *Comp. Biochem. Physiol., B: Comp. Biochem.*, 1985, **80**, 235, (*isol, Ac*)
Kuroda, S. *et al.*, *Tet. Lett.*, 1987, **28**, 803, (*synth, pmr*)
Vig, O.P. *et al.*, *J. Indian Chem. Soc.*, 1990, **67**, 37, (*synth*)
Kaiser, R., *J. Essent. Oil Res.*, 1991, **3**, 129, (*isol*)
Bellina, F. *et al.*, *Synth. Commun.*, 1996, **26**, 3297, (*synth, pmr*)