

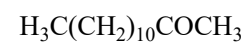


>>Entry Name: 2-Tridecanone

ENTRY UNDER REVIEW

Synonym(s): FEMA 3388

CAS Registry Number: 593-08-8



Molecular Formula: C₁₃H₂₆O

Molecular Weight: 198.348

Accurate Mass: 198.198365

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

Biological Source: Isol. from plant oils, e.g. *Schizandra nigra*, palm oil, coconut oil. Also found in American cranberry, rabbiteye, blueberry, raspberry, graprefruit, onions, ginger and var. cheeses. Ant alarm pheromone. Constit. of male mandibular gland secretions of *Philanthus basilaris* and *Philanthus bicinctus*

Use/Importance: Used as a flavouring essence

Melting Point: Mp 29°

Boiling Point: Bp 260-265°. Bp₁₆ 160°

Hazard & Toxicity: Fl. p. 107°

Aldrich: 39613-3

Fluka: 69620

>>Derivative: Oxime

Molecular Formula: C₁₃H₂₇NO

Molecular Weight: 213.362

Accurate Mass: 213.209264

Percentage Composition: C 73.18%; H 12.75%; N 6.56%; O 7.50%

Melting Point: Mp 56-57°

Solubility: Insol. petrol

>>Derivative: Semicarbazone

Melting Point: Mp 126°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 641C, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 498A, (ir)

Pickard, R.H. *et al.*, *J.C.S.*, 1911, **55**, 45, (synth)

Morgan, G.T. *et al.*, *J. Soc. Chem. Ind., London*, 1925, **44**, 108r

Allen, R.R., *Chem. Ind. (London)*, 1965, 1560, (isol)

Regnier, F.E. *et al.*, *J. Insect Physiol.*, 1968, **43**, 411

Hajek, M. *et al.*, *Tet. Lett.*, 1974, **36**, 3193, (synth)

McDaniel, C.A. *et al.*, *J. Chem. Ecol.*, 1987, **13**, 227