



>>Entry Name: 2-Pentadecanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 3724

CAS Registry Number: 2345-28-0

$\text{H}_3\text{C}(\text{CH}_2)_{12}\text{COCH}_3$

Molecular Formula: $\text{C}_{15}\text{H}_{30}\text{O}$

Molecular Weight: 226.401

Accurate Mass: 226.229665

Percentage Composition: C 79.58%; H 13.36%; O 7.07%

Biological Source: Isol. from hop (*Humulus lupulus*), coconut (*Cocos nucifera*) and other oils. Constit. of male mandibular gland secretions of the Hymenoptera *Philanthus basilaris* and *Philanthus bicinctus*

Use/Importance: Flavouring ingredient

Melting Point: Mp 39°

Boiling Point: Bp 294°. Bp_{0.7} 104-106°

Fluka: 76535

>>Derivative: Oxime

Molecular Formula: $\text{C}_{15}\text{H}_{31}\text{NO}$

Molecular Weight: 241.416

Accurate Mass: 241.240564

Percentage Composition: C 74.63%; H 12.94%; N 5.80%; O 6.63%

Melting Point: Mp 63-65°

>>Derivative: Semicarbazone

Melting Point: Mp 124-125°

References:

Krafft, F., *Ber.*, 1879, **12**, 1668

Baumgarten, P., *Ber.*, 1943, **76**, 213

Weichet, J. *et al.*, *Chem. Listy*, 1957, **51**, 127

Rieche, A. *et al.*, *Z. Chem.*, 1964, **4**, 177

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