



>>Entry Name: Undecane

Synonym(s): Hendecane

CAS Registry Number: 1120-21-4

$\text{H}_3\text{C}(\text{CH}_2)_9\text{CH}_3$

Molecular Formula: $\text{C}_{11}\text{H}_{24}$

Molecular Weight: 156.311

Accurate Mass: 156.1878

Percentage Composition: C 84.52%; H 15.48%

Biological Source: Constit. of natural petroleum. Also from turpentine (*Pinus* spp.) and other plant sources. Major component (62%) of oil of *Hypericum elegans*. Widely distributed in ants

Biological Use/Importance: Alarm pheromone in several ant spp., also a sex pheromone in the ant *Formica lugubris*

Melting Point: Fp -25.6°

Boiling Point: Bp 196° . Bp₂ 61°

Hazard & Toxicity: Fl. p. 65° (oc)

Aldrich: W51050-5

Fluka: 94002

Sigma: U5501

Supelco: R42-1011

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 3A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 2D, (ir)

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

Clemmensen, E., *Ber.*, 1913, **46**, 1837, (synth)

Hess, V.K. *et al.*, *Annalen*, 1925, **441**, 151, (synth)

Mathis, C. *et al.*, *Phytochemistry*, 1964, **3**, 115; 133, (occur)

Fujimoto, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1974, **47**, 1930, (synth, glc)

U.S. Pat., 1979, 4 070 410; *CA*, **89**, 8726, (manuf)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, UJS000