



>>Entry Name: Docosane

CAS Registry Number: 629-97-0

Type of Compound Code(s): VA0050

$\text{H}_3\text{C}(\text{CH}_2)_{20}\text{CH}_3$

Molecular Formula: $\text{C}_{22}\text{H}_{46}$

Molecular Weight: 310.605

Accurate Mass: 310.35995

Percentage Composition: C 85.07%; H 14.93%

Biological Source: Constit. of green alga *Scenedesmus acutus* and moth scales of the corn earworm *Heliothis zea*. Also isol. from higher plant sources

Use/Importance: Has kairomone activity

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 47°

Boiling Point: Bp₁₅ 224°

Aldrich: 13445-7

Fluka: 43942

Sigma: D4509

Supelco: R42-1022

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 6B, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 5B, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 6C, (ir)

Levene, P.A., *J. Biol. Chem.*, 1915, **20**, 528

Minami, Y. *et al.*, *CA*, 1953, 1422e, (synth)

Hunter, G.L.K. *et al.*, *Phytochemistry*, 1966, **5**, 807, (isol)

Jones, R.L. *et al.*, *Environ. Entomol.*, 1973, **2**, 593, (isol)

Snyder, R.G., *J. Chem. Phys.*, 1978, **68**, 4156, (ir)

Kakemoto, M. *et al.*, *Nippon Kagaku Kaishi*, 1979, 80, (glc, ms)