



>>Entry Name: 2,4-Hexadiene, 9CI
Synonym(s): Bipropenyl. Dipropenyl

CAS Registry Number: 592-46-1
Extra CAS Registry Numbers(s): 6108-61-8
H3CCH=CHCH=CHCH3

Molecular Formula: C_6H_{10}
Molecular Weight: 82.145
Accurate Mass: 82.07825
Percentage Composition: C 87.73%; H 12.27%

Aldrich: 42499-4

>>Variant: (E,E)-form

CAS Registry Number: 5194-51-4
Molecular Formula: C_6H_{10}
Molecular Weight: 82.145
Accurate Mass: 82.07825
Percentage Composition: C 87.73%; H 12.27%
Boiling Point: Bp 81°
Other Data: Uv $\lambda_{\max}$ 225 nm (log ϵ 4.63). Ir $\nu_{\max}$ 955 cm^{-1} . Readily polymerises
Hazard & Toxicity: Highly flammable, fl. p. -7°

>>Variant: (E,Z)-form

CAS Registry Number: 5194-50-3
Molecular Formula: C_6H_{10}
Molecular Weight: 82.145
Accurate Mass: 82.07825
Percentage Composition: C 87.73%; H 12.27%
Boiling Point: Bp 81°
Other Data: Uv $\lambda_{\max}$ 227 nm (log ϵ 4.25). Ir $\nu_{\max}$ 700 cm^{-1} . Readily polymerises
Hazard & Toxicity: Highly flammable, fl. p. -7°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 28B, (ir)
Kaufmann, T. *et al.*, *Angew. Chem., Int. Ed.*, 1967, **6**, 85, (synth)
Semmelhack, M.F. *et al.*, *J.A.C.S.*, 1972, **94**, 9234, (synth)
Claeson, A., *Acta Chem. Scand., Ser. B*, 1975, **29**, 609, (synth)