



>>Entry Name: 1-Dodecene, 9CI

Synonym(s): Dialene 12

CAS Registry Number: 112-41-4

Extra CAS Registry Numbers(s): 25378-22-7

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

Molecular Formula: $\text{C}_{12}\text{H}_{24}$

Molecular Weight: 168.322

Accurate Mass: 168.1878

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Mp -35°

Boiling Point: Bp₁₅ $92-95^\circ$

Solubility: Sol. EtOH, Me₂CO, Et₂O, petrol; insol. H₂O

Density: d_4^{20} 0.76

Refractive Index: n_D^{20} 1.4290

Other Data: Undergoes Ziegler-Natta homopolym. and copolym. with other alkenes

Hazard & Toxicity: Fl. p. 78° , autoignition temp. 255°

Aldrich: D22160-0

Fluka: 44150

Sigma: D2014

Supelco: 44-2264

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 20A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 15A, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 20A, (ir)

Marvel, C.S. *et al.*, *J. Polym. Sci.*, 1961, **49**, 335, (polym)

McMurry, J.E. *et al.*, *J.O.C.*, 1975, **40**, 2555, (synth)

Remion, J.R. *et al.*, *Tet. Lett.*, 1976, 1385, (synth)

Utimoto, K. *et al.*, *Tetrahedron*, 1977, **33**, 1945, (synth)

Yamada, K. *et al.*, *J.O.C.*, 1978, **43**, 2076, (synth)

Welch, S.C. *et al.*, *J.O.C.*, 1978, **43**, 2715, (synth)

Soga, K. *et al.*, *Makromol. Chem.*, 1989, **190**, 2683, (polym)