



>>Entry Name: 1-Ethoxy-1-propene, 9CI

Synonym(s): Ethyl propenyl ether, 8CI

CAS Registry Number: 928-55-2

$\text{H}_3\text{CCH}=\text{CHOEt}$

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}$

Molecular Weight: 86.133

Accurate Mass: 86.073165

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Hazard & Toxicity: Highly flammable, fl. p. $<-5^\circ$. LD_{50} (rat, orl) 4660 mg/kg. LD_{50} (rbt, skn) approx. 4000 mg/kg

Aldrich: 36404-5

Fluka: 4755

>>Variant: (E)-form

CAS Registry Number: 4696-26-8

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}$

Molecular Weight: 86.133

Accurate Mass: 86.073165

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Physical Description: Liq.

Boiling Point: Bp 75°

>>Variant: (Z)-form

CAS Registry Number: 4696-25-7

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}$

Molecular Weight: 86.133

Accurate Mass: 86.073165

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Physical Description: Liq.

Boiling Point: Bp 69°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 334B, (nmr)

Ansell, M.F. *et al.*, *J.C.S.*, 1958, 3388, (synth)

Farina, M. *et al.*, *Chim. Ind. (Milan)*, 1960, **42**, 967, (synth, ir)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 385

Effenberg, F. *et al.*, *Chem. Ber.*, 1971, **104**, 1987, (pmr)

Van de Sonde, C.C. *et al.*, *J.A.C.S.*, 1975, **97**, 4617, (ms)

Taskinen, E., *Tetrahedron*, 1978, **34**, 353, (cmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, EOY500