



>>Entry Name: 2-Ethyl-2-propenal

Synonym(s): 2-Methylenebutanal, 9CI. 2-Methylenebutyraldehyde, 8CI. 2-Ethylacrolein

CAS Registry Number: 922-63-4

Related CAS Registry Numbers(s): 25186-13-4

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

Molecular Formula: $\text{C}_5\text{H}_8\text{O}$

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Boiling Point: Bp 92-93°

Density: d_4^{20} 0.849

Refractive Index: n_D^{20} 1.4223

Aldrich: 25614-5

>>Derivative: Oxime

CAS Registry Number: 99705-27-8

Molecular Formula: $\text{C}_5\text{H}_9\text{NO}$

Molecular Weight: 99.132

Accurate Mass: 99.068414

Percentage Composition: C 60.58%; H 9.15%; N 14.13%; O 16.14%

Boiling Point: Bp₃₀ 78°

Refractive Index: n_D^{21} 1.4820

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 27227-40-3

Physical Description: Orange-red needles (MeNO_2)

Melting Point: Mp 168°

>>Derivative: Semicarbazone

Melting Point: Mp 189-192° (185-186°)

References:

Marvel, C.S. *et al.*, *J.A.C.S.*, 1948, **70**, 1694; 1950, **72**, 5408, (*synth, oxime*)

Farberov, M.I. *et al.*, *Zh. Prikl. Khim. (Leningrad)*, 1962, **35**, 2483; *J. Appl. Chem. USSR (Engl. Transl.)*, 1962, **35**, 2382, (*synth*)

Pikh, Z.G. *et al.*, *Zh. Org. Khim.*, 1978, **14**, 60; *J. Org. Chem. USSR (Engl. Transl.)*, 1978, **14**, 53, (*synth*)