



>>Entry Name: 3-(Dimethylamino)-2-propenal, 9CI

Synonym(s): 3-(Dimethylamino)acrolein, 8CI

CAS Registry Number: 927-63-9

Related CAS Registry Numbers(s): 692-32-0 125574-62-1

Me₂NCH=CHCHO

Molecular Formula: C₅H₉NO

Molecular Weight: 99.132

Accurate Mass: 99.068414

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

Melting Point: Mp -2°

Boiling Point: Bp 270-273°. Bp_{0.25} 100°

Density: d 0.99

Refractive Index: n_D²⁰ 1.5844

Aldrich: 30583-9

Fluka: 38985

Sigma: D0288

>>Derivative: Picrate

Physical Description: Cryst. (dioxan)

Melting Point: Mp 154.5-155.5°

>>Derivative: Di-Me acetal

CAS Registry Number: 1534-14-1

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Boiling Point: Bp₁₀ 70°

Refractive Index: n_D²¹ 1.4562

References:

Arnold, Z. *et al.*, *Coll. Czech. Chem. Comm.*, 1958, **23**, 452, (*synth*)

Bredereck, H. *et al.*, *Chem. Ber.*, 1968, **101**, 4036, (*di-Me acetal*)

Dabrowski, J. *et al.*, *Org. Magn. Reson.*, 1974, **6**, 499-502, (*cmr, conformn*)

Dabrowski, J. *et al.*, *J.A.C.S.*, 1976, **98**, 2826, (*uv*)

McNab, H., *J. Chem. Res., Synop.*, 1979, 121; *J. Chem. Res., Miniprint*, 1979, 1451, (*synth, ir, pmr, cmr*)

Nair, V. *et al.*, *J.O.C.*, 1981, **46**, 4759-4765, (*synth, ir, pmr, ms*)

Kozerski, L. *et al.*, *Org. Magn. Reson.*, 1981, **17**, 306-310, (*N-15 nmr*)