



>>Entry Name: 4-Aminobutanal, 9CI

Synonym(s): 4-Aminobutyraldehyde

CAS Registry Number: 4390-05-0

H2NCH2CH2CH2CHO

Molecular Formula: C4H9NO

Molecular Weight: 87.121

Accurate Mass: 87.068414

Percentage Composition: C 55.15%; H 10.41%; N 16.08%; O 18.36%

>>Derivative: 2,4-Dinitrophenylhydrazone; hydrochloride

Physical Description: Solid (EtOH)

Melting Point: Mp 198-199°

>>Derivative: Di-Me acetal

Synonym(s): 4,4-Dimethoxybutylamine

CAS Registry Number: 19060-15-2

Molecular Formula: C6H15NO2

Molecular Weight: 133.19

Accurate Mass: 133.110279

Percentage Composition: C 54.11%; H 11.35%; N 10.52%; O 24.02%

Physical Description: Oil

Boiling Point: Bp₂₂ 83-85°

>>Derivative: Di-Et acetal

Synonym(s): 4,4-Diethoxybutylamine

CAS Registry Number: 6346-09-4

Molecular Formula: C8H19NO2

Molecular Weight: 161.244

Accurate Mass: 161.141579

Percentage Composition: C 59.59%; H 11.88%; N 8.69%; O 19.85%

Boiling Point: Bp 196°. Bp_{0.5} 84-85°

Aldrich: A4415-0

Fluka: 7250

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 533B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 331D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 422A, (*ir*)

Burckhalter, J.H. *et al.*, *J.O.C.*, 1958, **23**, 1278, (*synth*)

Leonard, N.J. *et al.*, *Tet. Lett.*, 1960, **No. 25**, 44, (*synth*)

Gribble, G.W. *et al.*, *J.O.C.*, 1988, **53**, 3164, (*acetal, synth, ir, pmr*)