>>**Entry Name: Diformylamine**
Synonym(s): *N*-Formylformamide, 9CI

CAS Registry Number: 18197-22-3
Related CAS Registry Numbers(s): 18197-24-5 18197-27-8 26944-32-1 62837-48-3 81584-00-1
$NH(CHO)_2$

Molecular Formula: $C_2H_3NO_2$
Molecular Weight: 73.051
Accurate Mass: 73.016379
Percentage Composition: C 32.88%; H 4.14%; N 19.17%; O 43.80%
Physical Description: Cryst. (Et_2O)
Melting Point: Mp 41.5° (39-40°)
Boiling Point: Bp_{12} 119°

>>**Derivative:** Na salt

CAS Registry Number: 18197-26-7
Use/Importance: Reagent for synth. of primary amines
Physical Description: Cryst. solid
Fluka: 71494

>>**Derivative:** *N*-Ac
see N,N-Diformylacetamide, CSR22-E

>>**Derivative:** *N*-Me

CAS Registry Number: 18197-25-6
Molecular Formula: $C_3H_5NO_2$
Molecular Weight: 87.078
Accurate Mass: 87.032029
Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%
Physical Description: Liq.
Boiling Point: Bp_{735} 181-182°. Bp_{20} 80-82°

>>**Derivative:** *N*-Et

Molecular Formula: $C_4H_7NO_2$
Molecular Weight: 101.105
Accurate Mass: 101.047679
Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%
Physical Description: Liq.
Boiling Point: $Bp_{10.5}$ 70°

References:

Allenstein, E. *et al.*, *Chem. Ber.*, 1967, **100**, 3551; 1969, **102**, 4089, *(derivs)*
Noe, E.A. *et al.*, *J.A.C.S.*, 1973, **95**, 6118; 1975, **97**, 5811, *(synth, pmr, derivs)*
Yinglin, H. *et al.*, *Synthesis*, 1990, 122, *(synth, use, ir, pmr)*
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, FNL000

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