



>>Entry Name: Dimethylcarbamic acid

Synonym(s): Dimethylaminoformic acid

CAS Registry Number: 7260-94-8

Related CAS Registry Numbers(s): 22055-85-2

Me₂NCOOH

Molecular Formula: C₃H₇NO₂

Molecular Weight: 89.094

Accurate Mass: 89.047679

Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%

>>Derivative: Me ester

CAS Registry Number: 7541-16-4

Molecular Formula: C₄H₉NO₂

Molecular Weight: 103.121

Accurate Mass: 103.063329

Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%

Physical Description: Liq.

Boiling Point: Bp 131°

>>Derivative: Et ester

Synonym(s): Dimethylurethane

CAS Registry Number: 687-48-9

Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Liq.

Boiling Point: Bp 147° (140°)

Hazard & Toxicity: Exp. teratogen

Rare Chemicals Library: S57664-6

>>Derivative: Trimethylsilyl ester

see Trimethylsilyl dimethylcarbamate, [HQJ88-D](#)

>>Derivative: Chloride

Synonym(s): Chloroformic dimethylamide. Dimethylcarbamoyl chloride

CAS Registry Number: 79-44-7

Molecular Formula: C₃H₆ClNO

Molecular Weight: 107.539

Accurate Mass: 107.013791

Percentage Composition: C 33.51%; H 5.62%; Cl 32.97%; N 13.02%; O 14.88%

Physical Description: Liq.

Melting Point: Fp -33°

Boiling Point: Bp 167°

Hazard & Toxicity: Corrosive and irritating to skin, eyes and respiratory tract. Lachrymator

>>Derivative: Amide

see *N,N*-Dimethylurea, [DBC04-Z](#)

>>Derivative: Nitrile

see Dimethylcyanamide, [DHM80-H](#)

References:

Schreiner, L., *J. Prakt. Chem.*, 1880, **21**, 126

Franchimont, A.P.N. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1889, **8**, 299, (*deriv*)

Hantzsch, A. *et al.*, *Annalen*, 1898, **299**, 85

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