>>**Entry Name: Azidoformic acid**
Synonym(s): Carbonazidic acid, 9CI. Azidocarbonic acid

CAS Registry Number: 4472-05-3
N_3COOH

Molecular Formula: CHN_3O_2
Molecular Weight: 87.038
Accurate Mass: 87.006877
Percentage Composition: C 13.80%; H 1.16%; N 48.28%; O 36.76%

>>**Derivative:** Me ester
Synonym(s): Methyl azidoformate

CAS Registry Number: 1516-56-9
Molecular Formula: $C_2H_3N_3O_2$
Molecular Weight: 101.065
Accurate Mass: 101.022527
Percentage Composition: C 23.77%; H 2.99%; N 41.58%; O 31.66%
Boiling Point: Bp_{16} 18°
Hazard & Toxicity: Explosive

>>**Derivative:** Et ester
Synonym(s): Ethyl azidoformate

CAS Registry Number: 817-87-8
Molecular Formula: $C_3H_5N_3O_2$
Molecular Weight: 115.091
Accurate Mass: 115.038177
Percentage Composition: C 31.31%; H 4.38%; N 36.51%; O 27.80%
Use/Importance: Versatile synthetic reagent
Boiling Point: Bp_{20} 28°
Hazard & Toxicity: Heat-sensitive explosive

>>**Derivative:** *tert*-Butyl ester
Synonym(s): *tert*-Butyl azidoformate

CAS Registry Number: 1070-19-5
Molecular Formula: $C_5H_9N_3O_2$
Molecular Weight: 143.145
Accurate Mass: 143.069477
Percentage Composition: C 41.95%; H 6.34%; N 29.35%; O 22.35%
Use/Importance: Reagent for *N*-protection of amino acids
Boiling Point: Bp_{70} 73-74°
Other Data: Unstable above 80°
Hazard & Toxicity: Shock-and heat-sensitive explosive

>>**Derivative:** 4-Methoxybenzyl ester

CAS Registry Number: 25474-85-5
Molecular Formula: $C_9H_9N_3O_3$
Molecular Weight: 207.188
Accurate Mass: 207.064392
Percentage Composition: C 52.17%; H 4.38%; N 20.28%; O 23.17%
Physical Description: Needles
Optical Rotation: $[\alpha]_D$ +32

>>**Derivative:** Diphenylmethyl ester
Synonym(s): Diphenylmethyl azidoformate. Benzhydryl azidoformate

Molecular Formula: $C_{14}H_{11}N_3O_2$
Molecular Weight: 253.26
Accurate Mass: 253.085127
Percentage Composition: C 66.40%; H 4.38%; N 16.59%; O 12.63%
Use/Importance: *N*-Protecting reagent for peptide synth., esp. for synth. of unsymmetrical cystine peptides
Physical Description: Stable cryst.
Melting Point: Mp 37-39°