>>**Entry Name: Azetidine,** 9CI
Synonym(s): Trimethyleneimine. Azacyclobutane. Tetrahydroazete

CAS Registry Number: 503-29-7

Molecular Formula: C_3H_7N
Molecular Weight: 57.095
Accurate Mass: 57.057849
Percentage Composition: C 63.11%; H 12.36%; N 24.53%
Physical Description: Liq. with ammoniacal odour
Boiling Point: Bp 63°
Solubility: Misc. H_2O, EtOH
Density: d^{20} 0.844
Refractive Index: n_D^{24} 1.4287
Other Data: Many reported syntheses are claimed to give product containing C_6H_6, H_2O or other impurities (see Huszthy *et al*, 1993)

Aldrich: 28106-9
Fluka: 92457

>>**Derivative:** Picrate

Physical Description: Yellow needles
Melting Point: Mp 166-167°

>>**Derivative:** *N*-Benzoyl

CAS Registry Number: 3420-62-0
Molecular Formula: $C_{10}H_{11}NO$
Molecular Weight: 161.203
Accurate Mass: 161.084064
Percentage Composition: C 74.51%; H 6.88%; N 8.69%; O 9.93%
Physical Description: Cryst. (hexane)
Melting Point: Mp 61-62°
Hazard & Toxicity: Exp. tumourigenic effects

>>**Derivative:** *N*-(4-Methylbenzenesulfonyl)

CAS Registry Number: 7730-45-2
Physical Description: Cryst. (EtOH)
Melting Point: Mp 116-118°
Aldrich: 36782-6
Fluka: 89809
Rare Chemicals Library: S66148-1

>>**Derivative:** *N*-Me
see 1-Methylazetidine, NFK75-R

>>**Derivative:** *N*-Benzyl

CAS Registry Number: 7730-39-4
Molecular Formula: $C_{10}H_{13}N$
Molecular Weight: 147.219
Accurate Mass: 147.104799
Percentage Composition: C 81.59%; H 8.90%; N 9.51%
Boiling Point: Bp_5 71-75°. Bp_4 65-70°

>>**Derivative:** *N*-Ph
Synonym(s): 1-Phenylazetidine

CAS Registry Number: 3334-89-2
Physical Description: Oil
Boiling Point: Bp_{13} 80°