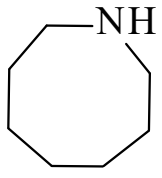
>>**Entry Name: Octahydroazocine,** 9CI
**Synonym(s):** Perhydroazocine. Azacyclooctane. Heptamethyleneimine



**CAS Registry Number:** 1121-92-2

**Molecular Formula:** $C_7H_{15}N$
**Molecular Weight:** 113.202
**Accurate Mass:** 113.120449
**Percentage Composition:** C 74.27%; H 13.36%; N 12.37%
**Boiling Point:** $Bp_{30}$ 75-77°
**Density:** $d_4^{21}$0.896
**pKa Value:** p$K_a$ 9.77
**Refractive Index:** $n_D^{21}$ 1.4740

**Aldrich:** H215-5
**Fluka:** 51710

>>**Derivative:** Hydrochloride

**Physical Description:** Cryst. ($Me_2CO$)
**Melting Point:** Mp 177°

>>**Derivative:** 4-Methylbenzenesulfonyl

**Melting Point:** Mp 82.5°

>>**Derivative:** 1-Me

**CAS Registry Number:** 19719-81-4
**Molecular Formula:** $C_8H_{17}N$
**Molecular Weight:** 127.229
**Accurate Mass:** 127.136099
**Percentage Composition:** C 75.52%; H 13.47%; N 11.01%
**Melting Point:** Mp 215° (as picrate)

>>**Derivative:** 1-Et

**CAS Registry Number:** 73676-23-0
**Molecular Formula:** $C_9H_{19}N$
**Molecular Weight:** 141.256
**Accurate Mass:** 141.151749
**Percentage Composition:** C 76.53%; H 13.56%; N 9.92%
**Melting Point:** Mp 163° (as picrate)

>>**Derivative:** 1-Isopropyl

**CAS Registry Number:** 108696-11-3
**Molecular Formula:** $C_{10}H_{21}N$
**Molecular Weight:** 155.283
**Accurate Mass:** 155.167399
**Percentage Composition:** C 77.35%; H 13.63%; N 9.02%
**Melting Point:** Mp 141° (as picrate)

>>**Derivative:** 1-*tert*-Butyl

**CAS Registry Number:** 108696-12-4
**Molecular Formula:** $C_{11}H_{23}N$
**Molecular Weight:** 169.309
**Accurate Mass:** 169.183049
**Percentage Composition:** C 78.04%; H 13.69%; N 8.27%
**Melting Point:** Mp 159° (as picrate)

**References:**