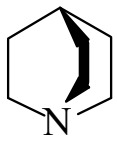
>>**Entry Name: 1-Azabicyclo[2.2.2]octane,** 9CI
Synonym(s): Quinuclidine, 8CI. Nuclidine



CAS Registry Number: 100-76-5

Molecular Formula: $C_7H_{13}N$
Molecular Weight: 111.186
Accurate Mass: 111.104799
Percentage Composition: C 75.62%; H 11.78%; N 12.60%
Use/Importance: Base used in org. synth. Forms cryst. complexes with organolithium compds.
Physical Description: Cryst. with ammoniacal odour
Melting Point: Mp 158° (sealed tube)
Solubility: V. sol. H_2O
pKa Value: pK_a 6.74 (22°)
Other Data: Very volatile

Aldrich: 19760-2
Fluka: 22709

>>**Derivative:** Hydrochloride

CAS Registry Number: 39896-06-5
Physical Description: Cryst. (EtOH)
Melting Point: Mp 364-365°
Aldrich: 13591-7
Fluka: 22712

>>**Derivative:** Hydrobromide

CAS Registry Number: 60662-68-2
Physical Description: Cryst.
Melting Point: Mp 325-330 dec.°

>>**Derivative:** Picrate

Physical Description: Pale-yellow needles (EtOH)
Melting Point: Mp 275 dec.°

>>**Derivative:** *N*-Me
Synonym(s): 1-Methyl-1-azoniabicyclo[2.2.2]octane(1+)

CAS Registry Number: 3618-94-8
Molecular Formula: $C_8H_{16}N^{(+)}$
Molecular Weight: 126.221
Accurate Mass: 126.128274
Percentage Composition: C 76.13%; H 12.78%; N 11.10%
Physical Description: Cryst. (Et_2O/EtOH) (as iodide)
Melting Point: Mp 357-358° (iodide)
Other Data: CAS no. refers to iodide

>>**Derivative:** *N*-Et
Synonym(s): 1-Ethyl-1-azoniabicyclo[2.2.2]octane(1+)

CAS Registry Number: 3618-93-7
Molecular Formula: $C_9H_{18}N^{(+)}$
Molecular Weight: 140.248
Accurate Mass: 140.143924
Percentage Composition: C 77.08%; H 12.94%; N 9.99%
Physical Description: Plates (EtOH) (as iodide)
Melting Point: Mp 270-271° (iodide)
Other Data: Slightly hygroscopic. CAS no. refers to iodide

References: