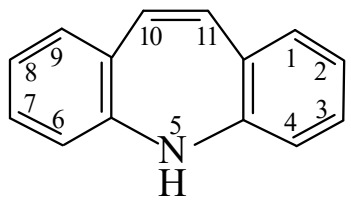
>>**Entry Name: 5*H*-Dibenz[*b*,*f*]azepine,** 9CI
Synonym(s): Iminostilbene



CAS Registry Number: 256-96-2

Molecular Formula: $C_{14}H_{11}N$
Molecular Weight: 193.248
Accurate Mass: 193.089149
Percentage Composition: C 87.01%; H 5.74%; N 7.25%
Physical Description: Orange cryst. (MeOH)
Melting Point: Mp 196.5-198°

Aldrich: 14365-0
Fluka: 56802

>>**Derivative:** *N*-Ac

CAS Registry Number: 19209-60-0
Molecular Formula: $C_{16}H_{13}NO$
Molecular Weight: 235.285
Accurate Mass: 235.099714
Percentage Composition: C 81.68%; H 5.57%; N 5.95%; O 6.80%
Melting Point: Mp 120°

>>**Derivative:** *N*-Me

CAS Registry Number: 52249-32-8
Molecular Formula: $C_{15}H_{13}N$
Molecular Weight: 207.274
Accurate Mass: 207.104799
Percentage Composition: C 86.92%; H 6.32%; N 6.76%
Physical Description: Cryst. (petrol)
Melting Point: Mp 142-142.5°

>>**Derivative:** *N*-Carbamoyl
Synonym(s): 5*H*-Dibenz[*b*,*f*]azepine-5-carboxamide, 9CI. **Carbamazepine,** BAN, INN, JAN, USAN**.** Atretol. Carba. Carbagamma. Carbium. Epimaz. Epitol. Neurotop. Prozine. Sirtal. Tegretol. Teril. Timonil. Trimonil. Many other names

CAS Registry Number: 298-46-4

Molecular Formula: $C_{15}H_{12}N_2O$
Molecular Weight: 236.273
Accurate Mass: 236.094963
Percentage Composition: C 76.25%; H 5.12%; N 11.86%; O 6.77%
Biological Use/Importance: Used to treat trigeminal neuralgia. Anticonvulsant
Physical Description: Cryst. (EtOH or C_6H_6)
Development Status: Marketed drug. Launched 1996
Melting Point: Mp 204-206°
Calculated Log P Data: Log P 1.98 (calc)
Hazard & Toxicity: Common adverse effects incl. dizziness, drowsiness, ataxia and visual disturbances. LD_{50} (rat, orl) 1957 mg/kg. Human and exp. reprod. effects. Exp. teratogen

Aldrich: 30948-6
Sigma: C4024

>>**Derivative:** *N*-Chlorocarbonyl

Molecular Formula: $C_{15}H_{10}ClNO$
Molecular Weight: 255.703
Accurate Mass: 255.045091
Percentage Composition: C 70.46%; H 3.94%; Cl 13.86%; N 5.48%; O 6.26%
Physical Description: Cryst. (toluene)
Melting Point: Mp 168-169°