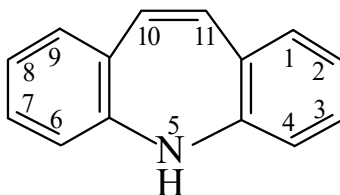




>>Entry Name: **5*H*-Dibenz[*b,f*]azepine, 9Cl**

Synonym(s): Iminostilbene



CAS Registry Number: 256-96-2

Molecular Formula: C₁₄H₁₁N

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: C₁₆H₁₃NO

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: C₁₅H₁₃N

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, 9Cl. **Carbamazepine**, BAN, INN, JAN, USAN. Atretol. Carba. Carbagama. Carbium. Epimaz. Epitol. Neurotop. Prozine. Sirtal. Tegretol. Teril. Timonil. Trimonil. Many other names

CAS Registry Number: 298-46-4

Molecular Formula: C₁₅H₁₂N₂O

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 C₆H₆)

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. LD₅₀ (rat, orl) 1957 mg/kg. Human and exp. reprod. effects. Exp. teratogen

Aldrich: 30948-6

Sigma: C4024

>>Derivative: *N*-Chlorocarbonyl

Molecular Formula: C₁₅H₁₀ClNO

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°