



>>Entry Name: Azobenzene, 8Cl

Synonym(s): Diphenyldiazene, 9Cl. Benzeneazobenzene

CAS Registry Number: 103-33-3

PhN=NPh

Molecular Formula: C₁₂H₁₀N₂

Molecular Weight: 182.224

Accurate Mass: 182.084398

Percentage Composition: C 79.10%; H 5.53%; N 15.37%

Use/Importance: Acaricide. Used in glasshouse as a smoke. Now superseded

pKa Value: pK_a -2.48 (25°, H₂SO₄ aq.)

Hazard & Toxicity: LD₅₀ (rat, orl) 1000 mg/kg. Exp. carcinogen

Aldrich: 15073-8

Supelco: R43-0040

>>Variant: (E)-form

CAS Registry Number: 17082-12-1

Molecular Formula: C₁₂H₁₀N₂

Molecular Weight: 182.224

Accurate Mass: 182.084398

Percentage Composition: C 79.10%; H 5.53%; N 15.37%

Physical Description: Orange cryst. (petrol)

Melting Point: Mp 68°

>>Derivative: N-Oxide

see Azoxybenzene, [FFS22-D](#)

>>Variant: (Z)-form

CAS Registry Number: 1080-16-6

Molecular Formula: C₁₂H₁₀N₂

Molecular Weight: 182.224

Accurate Mass: 182.084398

Percentage Composition: C 79.10%; H 5.53%; N 15.37%

Source/Synthesis: Readily prod. by photoisomerisation

Melting Point: Mp 71°

>>Derivative: N-Oxide

see Azoxybenzene, [FFS22-D](#)

References:

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