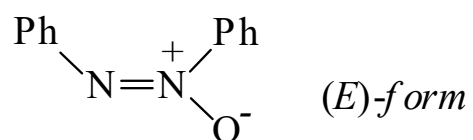




>>Entry Name: Azoxybenzene, 8Cl

Synonym(s): Diphenyldiazene 1-oxide, 9Cl. Azobenzene oxide. Fentoxan



CAS Registry Number: 495-48-7

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Hazard & Toxicity: Eye and skin irritant. LD₅₀ (rat, oral) 620 mg/kg

Rare Chemicals Library: S45228-9

Sigma: A6020

>>Variant: (E)-form

Synonym(s): *cis*-form

CAS Registry Number: 21650-65-7

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Physical Description: Yellow cryst.

Melting Point: Mp 69-71°

>>Variant: (Z)-form

Synonym(s): *trans*-form

CAS Registry Number: 20972-43-4

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Melting Point: Mp 38-38.5°

Other Data: Reported colour varies between nearly colourless and bright yellow

References:

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Loubinoux, B. *et al.*, *J. Organomet. Chem.*, 1975, **88**, C4, (*synth*)

Suresh, S. *et al.*, *Tetrahedron*, 1995, **51**, 11305, (*synth, ir, pmr, cmr*)

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