



>>Entry Name: Obidoxime(2+)

Synonym(s): 1,1'-[Oxybis(methylene)]bis[4-[(hydroxyimino)methyl]]pyridinium, 9Cl. 1,1'-(Oxydimethylene)bis[4-formylpyridinium] dioxime, 8Cl



CAS Registry Number: 7683-36-5

Related CAS Registry Numbers(s): 24275-91-0

Molecular Formula: C₁₄H₁₆N₄O₃²⁽⁺⁾

Molecular Weight: 288.305

Accurate Mass: 288.122241

Percentage Composition: C 58.32%; H 5.59%; N 19.43%; O 16.65%

>>Derivative: Dichloride

Synonym(s): Obidoxime chloride, INN, USAN. Toxogonin. Pirrangit. Toxobidin. Ujophosan. HS-3

CAS Registry Number: 114-90-9

Molecular Formula: C₁₄H₁₆Cl₂N₄O₃

Molecular Weight: 359.211

Accurate Mass: 358.059945

Percentage Composition: C 46.81%; H 4.49%; Cl 19.74%; N 15.60%; O 13.36%

Use/Importance: Cholinesterase reactivator, used in the treatment of organophosphorus poisoning

Melting Point: Mp 225 dec.°

Hazard & Toxicity: LD₅₀ (rat, ipr) 110 mg/kg. LD₅₀ (rat, ivn) 133 mg/kg

References:

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Kuhnen, H., *J. Chromatogr.*, 1969, **41**, 481, (*tlc*)

Erdmann, W.D., *Naunyn-Schmiedebergs Arch. Exp. Pathol. Pharmacol.*, 1969, **263**, 61, (*tox*)

Marrs, T.C., *Adverse Drug React. Toxicol. Rev.*, 1991, **10**, 61, (*tox, rev*)

Terrier, F. *et al.*, *J.C.S. Perkin 2*, 1991, 153, (*kinetics*)

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