



>>Entry Name: Hydroxyphenylmercury, 9CI

Synonym(s): Phenylmercury hydroxide

CAS Registry Number: 100-57-2

Related CAS Registry Numbers(s): 8017-88-7

PhHgOH

Molecular Formula: C₆H₆HgO

Molecular Weight: 294.703

Accurate Mass: 296.012482

Percentage Composition: C 24.45%; H 2.05%; Hg 68.07%; O 5.43%

Source/Synthesis: Synth. from NaOH and PhHgOAc

Use/Importance: Polym. catalyst; defoliant

Physical Description: Prisms (H₂O)

Melting Point: Mp 234-237°

Solubility: Sol. hot H₂O

Other Data: Probably converts to (PhHg)₂O below the Mp

Aldrich: P2714-3

>>Derivative: Ac

>>Derivative: Borate

Synonym(s): [[Orthoborato(1-)-O]phenyl]mercury, 9CI. **Phenylmercuric borate**, INN. Aderman. Exomicol. Fenosept. Hydromercury. Merfen. Spidox. Many other names

CAS Registry Number: 102-98-7

Molecular Formula: C₁₂H₁₃BHg₂O₄

Molecular Weight: 633.223

Accurate Mass: 636.031924

Percentage Composition: C 22.76%; H 2.07%; B 1.71%; Hg 63.36%; O 10.11%

Use/Importance: Disinfectant, antifungal. Pharmaceutical excipient (preservative)

Melting Point: Mp 112-113°

Other Data: Commercial product may be a mixt. of phenylmercury borate and phenylmercury hydroxide

Rare Chemicals Library: S36613-7

Sigma: P2272

>>Derivative: Nitrate

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1148D, (*ir*)

U.S. Pat., 1950, 2 196 384, (*synth, borate*)

Barr, M. *et al.*, *J. Am. Pharm. Assoc.*, 1957, **46**, 442, (*activity*)

Schatmaier, H.G. *et al.*, *Arzneim.-Forsch.*, 1962, **12**, 517, (*activity, borate*)

Kohn, S.R. *et al.*, *J. Pharm. Sci.*, 1963, **52**, 967, (*props, nitrate*)

Kozlik, V. *et al.*, *Pharmazie*, 1965, **20**, 106, (*props, acetate, borate*)

Bloodworth, A.J., *J. Organomet. Chem.*, 1970, **23**, 27, (*synth, ir*)

Daniel, J.W. *et al.*, *Biochem. J.*, 1972, **129**, 961, (*metab, acetate*)

Kamanar, B. *et al.*, *Inorg. Chim. Acta*, 1972, **6**, 191, (*cryst struct, acetate*)

Moreau, P. *et al.*, *J. Fluorine Chem.*, 1982, **20**, 715, (*synth, acetate, nitrate*)

Naumann, D. *et al.*, *J. Fluorine Chem.*, 1983, **23**, 37, (*pmr, acetate*)

Kunda, S.A. *et al.*, *Synth. Commun.*, 1984, **14**, 755, (*synth, acetate*)

Masucci, J.A. *et al.*, *Org. Mass Spectrom.*, 1987, **22**, 233, (*ms*)

Handbook of Pharmaceutical Excipients, 2nd edn., (eds. Wade, A. *et al.*), American Pharmaceutical Association/Pharmaceutical Press, 1994, 344-345

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., *Akademie-Verlag*, 1994, 469, (*synonyms*)

Martindale, The Extra Pharmacopoeia, 31st edn., *Pharmaceutical Press*, 1996, 1142

Hazards in the Chemical Laboratory, 3rd edn., (ed. Bretherick, L.), *Royal Society of Chemistry*, 1981, 382

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, ABU500; PFN100; PFP250; MCU750