



>>Entry Name: (Acetato-*O*)phenylmercury, 9CI

Synonym(s): Phenylmercuric acetate, USAN. Acetoxyphenylmercury. Acetoxymcuribenzen. Maysan. Ceresol. Anticon. Contracept. Gynophen. Senomen

CAS Registry Number: 62-38-4

XA4140

PhHgOAc

Molecular Formula: C₈H₈HgO₂

Molecular Weight: 336.74

Accurate Mass: 338.023047

Percentage Composition: C 28.53%; H 2.39%; Hg 59.57%; O 9.50%

Use/Importance: Bactericide, fungicide, algicide, disinfectant, spermicide, etc. Pharmaceutical excipient (preservative). Reference material used in elemental microanalysis. Adds to dienes in presence of catalytic Pd(OAc)₂ or stoichiometric Pd(OAc)₄; undergoes Heck reaction, stoichiometric in presence of Pd(OAc)₂ and catalytic in presence of Pd and Cu salts; substitutes allyl halides in presence of LiPdCl₃; homocouples to biphenyl in presence of PdCl₂/Py; reacts with CO/MeOH in presence of Wilkinson's catalyst; couples with phenylethyne in presence of Pd^{II} → PhC≡CPh; reacts with NOCl or NOBr → PhNO

Physical Description: Needles (H₂O) or lustrous cryst.

Melting Point: Mp 146-147° (152°)

Hazard & Toxicity: Highly toxic orally; LD₅₀ (rat, orl) 22 mg/kg

Aldrich: P2712-7

Fluka: 79120

Sigma: P5554

References:

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