>>**Entry Name: (Acetato-*O*)phenylmercury,** 9CI
Synonym(s): Phenylmercuric acetate, USAN. Acetoxyphenylmercury. Acetoxymercuribenzene. Maysan. Ceresol. Anticon. Contracept. Gynophen. Senomen

CAS Registry Number: 62-38-4

BB0390 BB0710 PS8120 XA1150 XA1550 XA2200 XA3250 XA4140
PhHgOAc

Molecular Formula: $C_8H_8HgO_2$
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 $LiPdCl_3$; homocouples to biphenyl in presence of $PdCl_2$/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 (H_2O) or lustrous cryst.
Melting Point: Mp 146-147° (152°)
Hazard & Toxicity: Highly toxic orally; LD_{50} (rat, orl) 22 mg/kg

Aldrich: P2712-7
Fluka: 79120
Sigma: P5554

References: