



>>Entry Name: Benzeneseleninic acid, 9Cl

Synonym(s): Phenylselenious acid

CAS Registry Number: 6996-92-5

PhSe(O)OH

Molecular Formula: C₆H₆O₂Se

Molecular Weight: 189.072

Accurate Mass: 189.9533

Percentage Composition: C 38.12%; H 3.20%; O 16.92%; Se 41.76%

Use/Importance: Reagent for acetoxyselenation of alkenes and rearr. of hydroxamic acids

Physical Description: Plates (H₂O)

Melting Point: Mp 124-125°

pKa Value: pK_a 4.7 (25°, 4% MeOH)

Hazard & Toxicity: Violent reaction with hydrazine derivatives

Aldrich: 21300-4

Fluka: 12585

>>Derivative: NH₄ salt

Use/Importance: Used as 20% aq. soln. for gravimetric detn. of Sc, Zr

Physical Description: Plates (H₂O)

Solubility: Sol. H₂O

>>Derivative: Anhydride

Synonym(s): Benzeneseleninic anhydride

CAS Registry Number: 17697-12-0

Molecular Formula: C₁₂H₁₀O₃Se₂

Molecular Weight: 360.129

Accurate Mass: 361.896035

Percentage Composition: C 40.02%; H 2.80%; O 13.33%; Se 43.85%

Use/Importance: Reagent for regiospecific hydroxylations and oxidn. of phenols to *ortho*-quinones

Physical Description: Fairly stable solid

Melting Point: Mp 164°

Other Data: Slowly hydrol. in moist atmosphere

Aldrich: 21301-2

Fluka: 12590

References:

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