



>>Entry Name: Phenylphosphonous acid, 9CI

Synonym(s): Benzenephosphonous acid

CAS Registry Number: 121-70-0

Related CAS Registry Numbers(s): 16263-37-9 24170-40-9

PhP(OH)₂

Molecular Formula: C₆H₇O₂P

Molecular Weight: 142.094

Accurate Mass: 142.018367

Percentage Composition: C 50.72%; H 4.97%; O 22.52%; P 21.80%

Fluka: 78912

>>Derivative: Na salt

Synonym(s): Sodium phenylphosphonite. Sodium benzenephosphonite

CAS Registry Number: 4297-95-4

Use/Importance: Antioxidant in nylon etc.

Physical Description: Cryst.

Other Data: Pptd. from aq. soln. with Me₂CO or THF

>>Derivative: Mono-Me ester

>>Derivative: Di-Me ester

Synonym(s): Dimethyl phenylphosphonite. Dimethyl benzenephosphonite

CAS Registry Number: 2946-61-4

Molecular Formula: C₈H₁₁O₂P

Molecular Weight: 170.147

Accurate Mass: 170.049667

Percentage Composition: C 56.47%; H 6.52%; O 18.81%; P 18.20%

Use/Importance: Ligand for many heavy metal ions

Physical Description: Liq.

Boiling Point: Bp₁₇ 98°

Density: d₄²⁰ 1.08

Refractive Index: n_D²⁵ 1.5261

Aldrich: 14947-0

>>Derivative: Mono-Et ester

>>Derivative: Di-Et ester

>>Derivative: Divinyl ester

Synonym(s): Divinyl phenylphosphonite. Diethenyl phenylphosphonite

Molecular Formula: C₁₀H₁₁O₂P

Molecular Weight: 194.169

Accurate Mass: 194.049667

Percentage Composition: C 61.86%; H 5.71%; O 16.48%; P 15.95%

Physical Description: Liq.

Boiling Point: Bp₂ 76-78°

Density: d₄²⁰ 1.06

Refractive Index: n_D²⁰ 1.5385