



>>Entry Name: Phenylphosphine, 9CI

Synonym(s): Phosphaaniline

CAS Registry Number: 638-21-1

PhPH₂

Molecular Formula: C₆H₇P

Molecular Weight: 110.095

Accurate Mass: 110.028537

Percentage Composition: C 65.46%; H 6.41%; P 28.13%

Physical Description: Foul-smelling liq.

Boiling Point: Bp 160-161°. Bp₅₀ 72°

Density: d¹⁵ 1.001

pKa Value: pK_a 22.4 (DMSO)

Refractive Index: n_D²⁰ 1.5796

Other Data: V. rapidly oxid. in air

Hazard & Toxicity: Pyrophoric. LC₅₀ (rat. ihl) 38 ppm (4h exposure). ACGIH TLV: 0.05 ppm (ceiling limit)

Aldrich: 32784-0

>>Derivative: Oxide

CAS Registry Number: 10052-96-7

Other Data: Tautomeric with Phenylphosphinic acid [GGM79-N](#)

>>Derivative: Sulfide

Other Data: Tautomeric with Phenylphosphinothioic acid [DNP21-V](#)

References:

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