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**Molecular Formula:** C<sub>8</sub>H<sub>20</sub>NO<sub>3</sub>P

**Molecular Weight:** 209.225

**Accurate Mass:** 209.118081

**Percentage Composition:** C 45.93%; H 9.63%; N 6.69%; O 22.94%; P 14.80%

**Physical Description:** Oil

**Optical Rotation:**  $[\alpha]_D^{20} -9.5$  (c, 1 in CHCl<sub>3</sub>)

>>Variant: (S)-form

**Synonym(s):** D-form

**CAS Registry Number:** 66254-55-5

**Molecular Formula:** C<sub>4</sub>H<sub>12</sub>NO<sub>3</sub>P

**Molecular Weight:** 153.117

**Accurate Mass:** 153.055481

**Percentage Composition:** C 31.38%; H 7.90%; N 9.15%; O 31.35%; P 20.23%

**Physical Description:** Solid

**Melting Point:** Mp 277-278°

**Optical Rotation:**  $[\alpha]_D^{20} -10$  (c, 2.0 in 1M NaOH aq.)

**Aldrich:** 47187-9

>>Derivative: Di-Et ester

**CAS Registry Number:** 101040-21-5

**Molecular Formula:** C<sub>8</sub>H<sub>20</sub>NO<sub>3</sub>P

**Molecular Weight:** 209.225

**Percentage Composition:** C 45.93%; H 9.63%; N 6.69%; O 22.94%; P 14.80%

**Physical Description:** No phys. props. reported

>>Variant: (±)-form

**CAS Registry Number:** 37100-67-7

**Molecular Formula:** C<sub>4</sub>H<sub>12</sub>NO<sub>3</sub>P

**Molecular Weight:** 153.117

**Accurate Mass:** 153.055481

**Percentage Composition:** C 31.38%; H 7.90%; N 9.15%; O 31.35%; P 20.23%

**Physical Description:** Cryst. (EtOH aq.)

**Melting Point:** Mp 262-264°. Mp 274-278°

**pKa Value:** pK<sub>a2</sub> 6; pK<sub>a3</sub> 10.45 pK<sub>a1</sub> 0.62; pK<sub>a2</sub> 5.8; pK<sub>a3</sub> 10.36 (25°)