



Molecular Formula: $C_8H_{20}NO_3P$

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 $CHCl_3$)

>>Variant: (S)-form

Synonym(s): D-form

CAS Registry Number: 66254-55-5

Molecular Formula: $C_4H_{12}NO_3P$

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: $C_8H_{20}NO_3P$

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: $C_4H_{12}NO_3P$

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_{a2} 6; pK_{a3} 10.45 pK_{a1} 0.62; pK_{a2} 5.8; pK_{a3} 10.36 (25°)