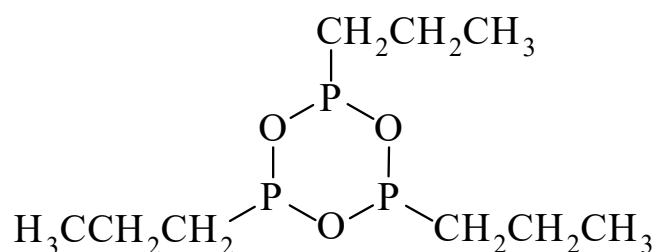




>>Entry Name: 2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphorinane, 9CI

Synonym(s): 2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane



Molecular Formula: C₉H₂₁O₃P₃

Molecular Weight: 270.184

Accurate Mass: 270.070356

Percentage Composition: C 40.01%; H 7.83%; O 17.76%; P 34.39%

>>Derivative: 2,4,6-Trioxide

Synonym(s): Propylphosphonic acid trimer trianhydride

CAS Registry Number: 68957-94-8

Molecular Formula: C₉H₂₁O₆P₃

Molecular Weight: 318.182

Accurate Mass: 318.055101

Percentage Composition: C 33.97%; H 6.65%; O 30.17%; P 29.20%

Use/Importance: Acts as a peptide-coupling agent

Physical Description: Syrup

Boiling Point: Bp_{0.3} 200°

Solubility: Sol. CH₂Cl₂, THF, DMF

Other Data: Stable at r.t.

Aldrich: 43130-3

Fluka: 81801

>>Derivative: 2,4,6-Trisulfide

Synonym(s): Propylphosphonothioic acid trimer trianhydride

Molecular Formula: C₉H₂₁O₃P₃S₃

Molecular Weight: 366.382

Accurate Mass: 365.986566

Percentage Composition: C 29.50%; H 5.78%; O 13.10%; P 25.36%; S 26.26%

Physical Description: Oil

References:

Maier, L., *Phosphorus Relat. Group V Elem.*, 1975, **5**, 253, (trisulfide, synth, pmr, P-31 nmr, ir)

Wissmann, H., *Angew. Chem., Int. Ed.*, 1980, **19**, 133, (trioxide, synth, use)

Wenger, R.M., *Helv. Chim. Acta*, 1984, **67**, 502, (trioxide, use)