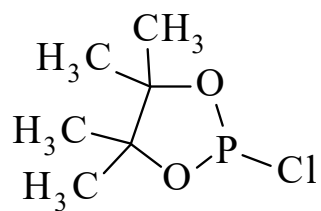




>>Entry Name: 2-Chloro-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane, 9Cl

Synonym(s): 2-Chloro-4,4,5,5-tetramethyl-1,3-dioxo-2-phosphacyclopentane. Tetramethylethylene chlorophosphite



CAS Registry Number: 14812-59-0

Molecular Formula: C₆H₁₂ClO₂P

Molecular Weight: 182.586

Accurate Mass: 182.026344

Percentage Composition: C 39.47%; H 6.62%; Cl 19.42%; O 17.53%; P 16.96%

Use/Importance: Used in characterisation of phenols (e.g. in lignins and coals) alcohols, carboxylic acids, amines, thiols, etc. by P-31 nmr

Physical Description: Fuming liq.

Boiling Point: Bp₉ 78-81°

Refractive Index: n_D²² 1.4723

Aldrich: 44753-6

>>Derivative: 2-Oxide

Synonym(s): Tetramethylethylene chlorophosphate. Tetramethylethylene phosphoryl chloride

CAS Registry Number: 60146-70-5

Molecular Formula: C₆H₁₂ClO₃P

Molecular Weight: 198.585

Accurate Mass: 198.021259

Percentage Composition: C 36.29%; H 6.09%; Cl 17.85%; O 24.17%; P 15.60%

Physical Description: No phys. props. reported

>>Derivative: 2-Sulfide

Synonym(s): Tetramethylethylene chlorothiophosphate. Tetramethylethylene thiophosphoryl chloride

CAS Registry Number: 59523-65-8

Molecular Formula: C₆H₁₂ClO₂PS

Molecular Weight: 214.652

Accurate Mass: 213.998414

Percentage Composition: C 33.57%; H 5.63%; Cl 16.52%; O 14.91%; P 14.43%; S 14.94%

Physical Description: Cryst. (petrol at 0°)

Melting Point: Mp 62-64°

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