

1. Single Step[Overview](#)**Steps/Stages**

1.1 R:PCl₃, R:NaOH, -10°C; 75°C

Notes

-90kPa used, Reactants: 1, Reagents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

[A process for producing dimethyl phosphite and byproducts of hydrochloric acid and methyl chloride](#)

By Duan, Xuyue et al

From Faming Zhuanli Shenqing, 104693235, 10 Jun 2015

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2. Single Step[Overview](#)**Steps/Stages**

1.1 R:PCl₃, 48°C

1.2 R:NH₃, pH 7.5

Notes

autoclave used, exothermic, Reactants: 1, Reagents: 2, Steps: 1, Stages: 2, Most stages in any one step: 2

References

[Method for producing dimethyl phosphite](#)

From Faming Zhuanli Shenqing, 104163829, 26 Nov 2014

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3. Single Step[Overview](#)**Steps/Stages****Notes**

1.1 R:PCl₃

Reactants: 1, Reagents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References[Application of evaporative condenser in glyphosate production](#)

By Liu, Xinlong et al

From Faming Zhuanli Shenqing, 104961768, 07 Oct 2015

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4. Single Step[Overview](#)**Steps/Stages**1.1 R:PCl₃, S:CCl₄**Notes**

Reactants: 1, Reagents: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References[Synthesis and Biological Activity of 1-\(Substituted phenoxyacetoxy\)-1-\(pyridin-2-yl or thien-2-yl\)methylphosphonates](#)

By Wang, Tao et al

From Journal of Heterocyclic Chemistry, 52(1), 173-179; 2015

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5. Single Step[Overview](#)**Steps/Stages**1.1 R:PCl₃**Notes**

literature preparation, Reactants: 1, Reagents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

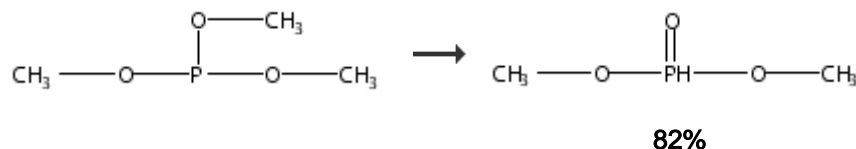
References[Synthesis and Biological Activities of O,O-Dialkyl 1-\(\(4,6-Dichloropyrimidin-2-yl\)Carbamoyloxy\) Alkylphosphonates](#)

By Xu, Liang et al

From Phosphorus, Sulfur and Silicon and the Related Elements, 189(6), 812-818; 2014

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6. Single Step



Overview

Steps/Stages

1.1 R:H₂O, S:THF, overnight, rt

Notes

Reactants: 1, Reagents: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

[Catalytic Enantioselective Hydrophosphonylation of Aldehydes Using the Iron Complex of a Camphor-Based Tridentate Schiff Base \[FeCl\(SBAIB-d\)\]₂](#)

By Boobalan, Ramalingam and Chen, Chinpiao

From Advanced Synthesis & Catalysis, 355(17), 3443-3450; 2013

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