

Materials List for:

Preparation and Reactivity of a Triphosphenium Bromide Salt: A Convenient and Stable Source of Phosphorus(I)Stephanie C. Kosnik¹, Justin F. Binder¹, Maxemilian C. Nascimento¹, Charles L. B. Macdonald¹¹Department of Chemistry and Biochemistry, University of WindsorCorrespondence to: Charles L. B. Macdonald at cmacd@uwindsor.caURL: <https://www.jove.com/video/55021>DOI: [doi:10.3791/55021](https://doi.org/10.3791/55021)**Materials**

Name	Company	Catalog Number	Comments
bis(diphenyl)phosphino ethane (dppe)	Strem	1663-45-2	98% Stored in gloved box, used as is.
Anhydrous Dichloromethane (DCM)	Sigma Aldrich	270997	Purified through solvent purification system, or standard methods
Anhydrous Cyclohexene	Sigma Aldrich	29240	Dried over calcium hydride and distilled.
Phosphorus Tribromide (PBr ₃)	Sigma Aldrich	157783	99% Stored in glove box, used as is. Air sensitive.
Anhydrous Tetrahydrofuran (THF)	Sigma Aldrich	401757	Purified through solvent purification system, or standard methods
Methylene Chloride-D ₂ (CD ₂ Cl ₂)	Sigma Aldrich	DLM-23-25	Dried over phosphorus pentoxide, vacuum transferred or distilled
Acetonitrile	Alfa Aesar	5/8/1975	Stored in glove box, used as is
Sodium Tetrphenylborate	Sigma Aldrich	T25402	Stored in glove box, used as is
Anhydrous Diethyl Ether	Sigma Aldrich	673811	Purified through solvent purification system, or standard methods
Anhydrous Pentane	Sigma Aldrich	236705	Purified through solvent purification system, or standard methods