

Materials List for:

Preparation and Use of Carbonyl-decorated Carbenes in the Activation of White Phosphorus

Antonio J. Torres¹, Christopher L. Dorsey¹, Todd W. Hudnall¹

¹Chemistry and Biochemistry, Texas State University

Correspondence to: Todd W. Hudnall at th40@txstate.edu

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Materials

Name	Company	Catalog Number	Comments
2,4,6-Trimethylaniline	Alfa Aesar	AAA13049-0E	98%
Triethylorthoformate	Alfa Aesar	AAA13587	98%
Dimethylmalonyl dichloride	TCI	D2723	>98%
3-Chloro-pivaloyl chloride	Aldrich	225703-25G	98%
Triethylamine	Alfa Aesar	AAA12646	Stored over dried, activated 3 Å molecular sieves
Celite™ 545	EMD	CX0574-3D	Oven-dried at 180 °C for a minimum of 12 hr
Sodium hexamethyldisilazide	Across	200014-462	95+%
2,3-Dimethyl-1,3-butadiene	Alfa Aesar	AAAL04207-09	98%
Dichloromethane	EMD	DX0835-5	Purified through solvent purification system, or standard methods
Tetrahydrofuran	Mallinckrodt	8498-09	Purified through solvent purification system, or standard methods
Hexanes	EMD	HX0299-3	Purified through solvent purification system, or standard methods
Benzene	EMD	BX0220-5	Purified through solvent purification system, or standard methods
Toluene	BDH	1151-19L	Purified through solvent purification system, or standard methods
White phosphorus	Generously donated from the Texas A&M chemistry store room.		Purified through sublimation and transferred directly into a glovebox while under vacuum in the sublimator