

Materials List for:

The Synthesis, Characterization and Reactivity of a Series of Ruthenium *N*-triphos^{Ph} Complexes

Andreas Phanopoulos¹, Nicholas Long¹, Philip Miller¹

¹Department of Chemistry, Imperial College London

Correspondence to: Philip Miller at philip.miller@imperial.ac.uk

URL: <https://www.jove.com/video/52689>

DOI: [doi:10.3791/52689](https://doi.org/10.3791/52689)

Materials

Name	Company	Catalog Number	Comments
Methanol			Obtained from in-house solvent purification system: Innovative Technology, inc "pure solv" drying tower. Stored in ampules over activated molecular sieves under nitrogen.
Toluene			
Diethyl Ether			
Tetrahydrofuran (THF)			
Acetonitrile			
d ₆ -Acetone	VWR	VWRC87152.0011	Store in fridge
Triethylamine	Sigma-Aldrich	TO886-1L	Distilled and stored over activated molecular sieves under N ₂
2 M Ammonia solution in methanol	Sigma-Aldrich	341428-100ML	Solution comes in a "Sure-Seal" bottle
NH ₄ PF ₆	Sigma-Aldrich	216593-5G	Store in desiccator
Levulinic Acid	Acros Organics	125142500	Solid but melts close to room temperature
3 Å Molecular sieves	Alfa Aesar	LO5359	Activate by heating over night under vacuum
Schlenk flasks	GPE	Custom design	
Dual-manifold Schlenk line	GPE	Custom design	Dual-manifold of i) N ₂ that has been passed through a silica drying column and ii) vacuum.
Rotary vacuum pump	Edwards	RV3 A652-01-903	
100 ml Autoclave Engineer's high pressure reactor	Autoclave Engineer	Custom design	
Vortex Stirrer	VWR	444-1378	