

Materials List for:

# The Synthesis of $[\text{Sn}_{10}(\text{Si}(\text{SiMe}_3)_3)_4]^{2-}$ Using a Metastable Sn(I) Halide Solution Synthesized via a Co-condensation Technique

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URL: <https://www.jove.com/video/54498>

DOI: [doi:10.3791/54498](https://doi.org/10.3791/54498)

## Materials

Name	Company	Catalog Number	Comments
Tin, 99.999%	ABCR	AB122397	
Hydrogen chloride N28, 99.8%	Air Liquide	P0820S10R0A001	Toxic
Toluene anhydrous, 99.8%	Sigma Aldrich	244511	
Tri-n-butylphosphine, >93.5%	Sigma Aldrich	90827	Toxic
TMEDA, >99.5%	Sigma Aldrich	411019	
12-crown-4	Sigma Aldrich	194905	Toxic
THF anhydrous, >99.9%	Sigma Aldrich	401757	
Sodium, 99.95%	Sigma Aldrich	262715	
Benzophenone, >99%	Sigma Aldrich	427551	
Differential pressure manometer	MKS	MKS Baratron 223B	
Mass flow controller	Bronckhorst	Low Δp flow mass flow controller	
High frequency generator	Trumpf Hüttinger	TruHeat MF 5020	
NMR spectrometer	Bruker	Bruker DRX-250	
Glovebox	GS Systemtechnik		
Argon 5.0	Westfalen		
Nitrogen 4.8	Westfalen		
Graphite	SGL		
Quartz glass tube	Gebr. Rettberg GmbH		
Steel transferring cannula	Rohre Ketterer		
Balance	Kern	Kern PFB200-3	
Oil diffusion pump	Balzars	Balzars Diff900	
Rotary vane pump	Balzars	Balzars QK100L4D	
Pyrometer	Sensotherm	6285	
Schlenk tubes with glassy stopcocks	Gebr. Rettberg GmbH	J.-Young-type valve with glassy stopcock	