

Materials List for:

Efficient Synthesis of All-Carbon Quaternary Centers via the Conjugate Addition of Functionalized Monoorganozinc Bromides

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Materials

Name	Company	Catalog Number	Comments
Ammonium Chloride			
Biotage Isolera One Flash Chromatography System	Biotage	ISO-ISW	UV/vis detection (254, 280, 200-400nm)
Chloroform-D, (D, 99.8%)	Cambridge Isotope Laboratories	DLM-7	
Copper (I) bromide dimethyl sulfide complex, 99%	Sigma Aldrich	230502	Air and moisture sensitive
Diethyl Ether, anhydrous, 99%	EMD Chemicals	MEX01906	ACS
Ethyl 4-bromobutrate	Oakwood	139400	
Ethyl Acetate, 99.9%	Fisher	E145-500	ACS
Glacial Acetic Acid	Oakwood	O35907	ACS
HCl			1 M aq
Hexanes, 98.5%	EMD Chemicals	HX0299	ACS
HP 6890 Series GC	HP		
HP-1 GC Column	Agilent	19091-60312	0.2 mm x 0.33 um, 12 m, 7 inch cage
Iodine			
Magnesium Sulfate, anhydrous, 98%	EMD Chemicals	MX0075	
Methyl enone			
N,N-Dimethylacetamide, anhydrous, 99%	Alfa Aesar	A10924	Dried over 3 Åms
Silica gel	VWR	86306-350	60 Å, 40-60 um
Sodium Bicarbonate			
Sodium Chloride			
Tetra-n-butylammonium fluoride	Oakwood	O43479	1 M in THF
Thin-layer chromatography plates	EMD Milipore	115341	6.5 x 2.2 cm ² , 60 g F254 precoated plates (9.5-11.5 um particle size)
Trimethyl silyl chloride, 99%	Sigma Aldrich	386529	Air sensitive
Zinc			Powder, HCl-washed