

Materials List for:

Preparation of 6-aminocyclohepta-2,4-dien-1-one Derivatives via Tricarbonyl(tropone)iron

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Materials

Name	Company	Catalog Number	Comments
10 g SNAP Ultra silica gel columns	Biotage		for automated column chromatography
Acetic anhydride	Fisher Scientific	A10-500	
Acetone	Fisher Scientific	A-16S-20	for cooling baths
Acetonitrile-D3	Sigma Aldrich	366544	
Benzene, anhydrous, 99.8%	Sigma Aldrich	401765	
Biotage Isolera Prime	Biotage	ISO-PSF	for automated chromatography
Celite; 545 Filter Aid	Fisher Scientific	C212-500	diatomaceous earth
Cerium(IV) ammonium nitrate, ACS, 99+%	Alfa Aesar	33254	
Chloroform-D	Acros	209561000	
Di-tert-butyl dicarbonate, 99%	Acros	194670250	
Ethyl acetate	Fisher Scientific	E145-4	
Ethyl alcohol, absolute - 200 proof	Greenfield Global	111000200PL05	
Ethyl ether anhydrous	Fisher Scientific	E138-1	
Hexanes	Fisher Scientific	H302-4	
iron nonacarbonyl 99%	Strem	26-2640	air sensitive, synonymous with diiron nonacarbonyl
Magnesium sulfate	Fisher Scientific	M65-500	
Methanol	EMD Millipore	MX0475-1	
Methylene chloride	Fisher Scientific	D37-4	
MP alumina, Act. II-III acc. To Brockmann	MP Biomedicals	4691	for column chromatography
o-toluidine 98%	Sigma Aldrich	466190	
Phenethylamine 99%	Sigma Aldrich	128945	distill prior to use if not colorless
Sodium bicarbonate	Fisher Scientific	S233-500	
Sodium carbonate anhydrous	Fisher Scientific	S263-500	
Sodium chloride	Fisher Scientific	S271-500	dissolved in deionized water to prepare a saturated aqueous solution
Sodium sulfate anhydrous	Fisher Scientific	S415-500	
Sonicator	Branson		model 2510
Sulfuric acid	Fisher Scientific	A300C-212	
Tetrafluoroboric acid solution, 48 wt. %	Sigma Aldrich	207934	aqueous solution
TLC Aluminium oxide 60 F254, neutral	EMD Millipore	1.05581.0001	for thin layer chromatography

Tropone 97%	Alfa Aesar	L004730-06	Light sensitive
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