

Materials List for:

Synthesis and Characterization of Amphiphilic Gold Nanoparticles

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Materials

Name	Company	Catalog Number	Comments
11-bromo-1-undecene	Sigma Aldrich	467642-25 ml	
Sodium Sulfite	Sigma Aldrich	S0505-250 g	
Benzyltriethyl-ammonium bromide	Sigma Aldrich	147125-25 g	
Methanol	VWR	BDH1135-2.5 LP	
DI water	Millipore	ZRXQ003WW	Deionized water
1 L round bottom flask	DURAN	24 170 56	
Diethyl ether	Sigma Aldrich	1.00930 EMD Millipore	
Stirring bar	Sigma Aldrich	Z329207,	
Dow Corning High Vacuum Grease	Sigma Aldrich	Z273554 ALDRICH	
Filtering flask	DURAN	20 201 63	
Filtering Buchner Funnel	FisherSci	11707335	
Ethanol>99.8%, ACS, Reagent	VWR	2081.321DP	
Deuterium dioxide	Sigma Aldrich	151882 ALDRICH	
Thioacetic acid 96%	Sigma Aldrich	T30805 ALDRICH	
Carbon black	Sigma Aldrich	05105-1KG	
Celite	Sigma Aldrich	D3877 SIGMA-ALDRICH	Filtration medium
Condenser	Sigma Aldrich	Z531154	
Hydrochloric acid, ACS reagent 37%	Sigma Aldrich	320331 SIGMA-ALDRICH	
Sodium Hydroxide, BioXtra, pellets (anhydrous)	Sigma Aldrich	S8045 SIGMA-ALDRICH	
Centrifuge tubes	VWR	525-0155P	
250 mL round bottom flask	DURAN	24 170 37	
500 mL round bottom flask	DURAN	24 170 46	
Nitric acid, fACS reagent 70%	Sigma Aldrich	438073 SIGMA-ALDRICH	
Gold(III) chloride trihydrate>99.9% trace metal basis	Sigma Aldrich	520918 ALDRICH	
1-octanethiol>98.5%	Sigma Aldrich	471836 ALDRICH	
Sodium Borohydride purum p.a.>96%	Sigma Aldrich	71320 ALDRICH	
addition funnel	Sigma Aldrich	Z330655 SIGMA	
Funnel	DURAN	21 351 46	
2V folded filtering papers	Whatman	1202-150	
Amicon filters	Merck	UFC903024	

Iodine, ACS reagent,>99.8%, solid	Sigma Aldrich	207772 SIGMA-ALDRICH	
5 mm NMR-Tubes, Type 5HP (high precision)	Armar	32210.503	Length 178 mm
Methanol-d4 99.8 atom%D	Armar	16400.2035	
TGA crucible	Thepro	9095-9270.45	
400 mesh carbon supported copper grid	Electron Microscopy Science	CF400-Cu	
quartz cuvette	Hellma Analytics	100-1-40	