

Materials List for:

Photogeneration of N-Heterocyclic Carbenes: Application in Photoinduced Ring-Opening Metathesis Polymerization

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Materials

Name	Company	Catalog Number	Comments
Material			
Dimesitylimidazolium chloride, 97%	ABCR	AB130859	
Sodium tetraphenylborate, 99%	ABCR	AB118843	
Dichloro(p-cymene) ruthenium dimer, 98%	ABCR	AB113524	
Norbornene, 99%	ABCR	AB171849	
Isopropylthioxanthone, 97%	Sigma Aldrich	406317	
Carbon disulfide, 99.9%	Sigma Aldrich	335266	
Dichloromethane	Sigma Aldrich	270997	
Ethanol	VWR	20821.31	
Deuterated DMSO	Eurisotop	D010FE	
Deuterated THF	Eurisotop	D149CB	
1,2-Dichloroethane	Sigma Aldrich	284505	
Brij S 100	Sigma Aldrich	466387	
Hexadecane	Sigma Aldrich	H6703	
Phenol red, 98%	Sigma Aldrich	P4633	
Acetonitrile	VWR	83639.290	
1,3-Bis(mesityl)imidazol-2-ylidene, 97%	Sigma Aldrich	696188	
Name	Company	Catalog Number	Comments
Equipment			
Rayonet photochemical reactor	Southern New England Ultraviolet Company	RPR-200	
UV lamps for photochemical reactor	Southern New England Ultraviolet Company	RPR-3500A	
¹ H and ¹³ C NMR spectrometer	Bruker	Avance III HD spectrometer	
Sonication probe	BioBlock	Vibra-cell	
Gas chromatography	Varian	GC3900	
LED Lamp and Photo-cabinet	Peschl ultraviolet	novaLIGHT TLED100-365	
Dynamic Light Scattering	Malvern	zetasizer Nano ZS	
365 nm UV-LED light source coupled with a flexible light-guide	Hamamastu	LC-L1V3	

UV/vis spectrometer	Perkin Elmer	Lambda 35	
Hg- Xe lamp with filter centred at 365 nm	Hamamastu	LC-9588/01A	
Radiometer	Ocean Optics	USB4000	