

Materials List for:

Qualitative Identification of Carboxylic Acids, Boronic Acids, and Amines Using Cruciform Fluorophores

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Materials

Name	Company	Catalog Number	Comments
Cyclohexane (CH)	Mallinckrodt	4878-02	
Chlorobenzene (CB)	JT Baker	9179-1	
1,2,4-Trichlorobenzene (TCB)	Alfa Aesar	19390	
Dichloromethane (DCM) - Miljanić	Mallinckrodt	4879-06	
Acetonitrile (AN)	Mallinckrodt	2856-10	
Chloroform (CF)	Mallinckrodt	4440-19	
Dichloromethane (DCM) - Bunz	Sigma Aldrich	24233	
Ethyl Acetate (EtOAc)	Brenntag	10010447	Additional distillation
Acetonitrile (AN)	Sigma Aldrich	34851	
Dimethylformamide (DMF)	Sigma Aldrich	38840	
2-Propanol (iPrOH)	Ruprecht-Karls Universität Heidelberg, Zentralbereich Neuenheimer Feld	69595	
Methanol (MeOH)	VWR	20847.295	
4-Hydroxybenzoic Acid (A1)	Fluka	54630	
(4-Hydroxyphenyl)acetic Acid (A2)	Sigma Aldrich	H50004	
Ibuprofen (A3)	ABCR	AB125950	
Aspirine (A4)	Sigma Aldrich	A5376	
Phenylacetic Acid (A5)	Sigma Aldrich	P16621	
4-Chlorophenylacetic Acid (A6)	Sigma Aldrich	139262	
Benzoic Acid (A7)	Merck	8222571000	
3,5-Dihydroxybenzoic Acid (A8)	Sigma Aldrich	D110000	
2,4-Dichlorobenzoic Acid (A9)	Sigma Aldrich	139572	
2-Hydroxy-5-iodobenzoic Acid (A10)	Sigma Aldrich	I10600	
2,6-Dichlorophenylboronic Acid (B1)	TCI	D3357	
3,5-Bis(trifluoromethyl)phenylboronic Acid (B2)	Sigma Aldrich	471070	
4-Mercaptophenylboronic Acid (B3)	Sigma Aldrich	524018	
4-Methoxyphenylboronic Acid (B4)	TCI	M1126	
Benzeneboronic Acid (B5)	Alfa Aesar	A14257	
Cyclohexylboronic Acid (B6)	Sigma Aldrich	556580	

3-Pyridylboronic Acid (B7)	Sigma Aldrich	512125	
4-Nitrophenylboronic Acid (B8)	Sigma Aldrich	673854	
Pentafluorophenylboronic Acid (B9)	Sigma Aldrich	465097	
Triethylamine (N1)	Alfa Aesar	A12646	
Piperidine (N2)	JT Baker	2895-05	
Piperazine (N3)	Aldrich	P45907	
1,4-Diaminobenzene (N4)	Alfa Aesar	A15680	
1,3-Diaminobenzene (N5)	Eastman		
1,2-Diaminobenzene (N6)	TCI	P0168	
4-Methoxyaniline (N7)	Alfa Aesar	A10946	
Aniline (N8)	Acros	22173-2500	
4-Nitroaniline (N9)	Alfa Aesar	A10369	
N,N-Diphenylurea (N10)	Alfa Aesar	A18720	
N,N-Dimethylurea (N11)	Alfa Aesar	B21329	
Urea (N12)	Mallinckrodt	8648-04	
Canon EOS 30D (objective EFS 18-55 mm zoom lens)	Canon		
Canon EOS Rebel T3i (objective EFS 18-55 mm zoom lens)	Canon		
FujiFilm FinePix S9000	Fuji		