

basic organic functional group reference chart

NAME	POSITIONS OF IR STRETCH BANDS	
Aliphatic	C-H	
Methyl	2900	
Methylene	2900	
Unsaturated	C=C	
Alkene	3000-1600	1640
Vinyl	3100	1640
Vinylene	690	1640
Cis	700	1640
Trans	965	1670
Alkyne	3300	2200
Aromatic	C-H	
Arolic	3100	3000
Ortho	750	700
Meta	750	710
Para	780	700
	810	690
Oxygen Groups	C=O	
Ether	1100	1050
Alcohol	1100	1000
Carbonyl Groups	C=O	
Aldehyde	2700	1700
Ketone		1700
Ester	1700	1750
Carboxylic Acid	2400	1700
Nitrogen Groups	C-N	
Amine	1040	1000
Nitrile	2200	2100



FUNCTIONAL GROUP REPRESENTATION

Alcohol	Alkyne	Alkene	Alkyne
<chem>R-OH</chem>	<chem>R-C#C</chem>	<chem>R-C=C</chem>	<chem>R-C#C</chem>
<chem>R-C#C</chem>	<chem>R-C#C</chem>	<chem>R-C#C</chem>	<chem>R-C#C</chem>
Amine	Ortho	Meta	Para
<chem>R-NH2</chem>	<chem>R-C6H4-NH2</chem>	<chem>R-C6H4-NH2</chem>	<chem>R-C6H4-NH2</chem>
Aldehyde	Ketone	Ester	
<chem>R-CHO</chem>	<chem>R-C(=O)-R</chem>	<chem>R-C(=O)-OR</chem>	
Ether	Carbonyl	Nitrile	
<chem>R-O-R</chem>	<chem>R-C(=O)-R</chem>	<chem>R-C#N</chem>	
Amide	Amine	Nitrile	
<chem>R-C(=O)-NH2</chem>	<chem>R-NH2</chem>	<chem>R-C#N</chem>	

Ftir Spectroscopy Reference Guide Agilent

Rachel S Tattersall



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