

basic organic functional group reference chart

NAME	POSITIONS OF IR STRONG BANDS	
Aliphatic	C-H	
Methyl	2900	
Methylene	2900	
Unsaturated	C=C	
Alkene	3000-1640	1640
Vinyl	3100	1640
Vinylene	690	1640
Cis	700	1640
Trans	960	1670
Alkyne	3300	2200
Aromatic	C-H	
Arolic	700	700
Ortho	750	710
Meta	780	700
Para	810	690
Oxygen Groups	C=O	
Ether	1100	1100
Alcohol	1100	3300
Carbonyl Groups	C=O	
Aldehyde	2700	1720
Ketone		1700
Ester	1700	1740
Carboxylic Acid	2400	1720
Nitrogen Groups	N-H	
Amide	1640	3300
Amine		3300
Nitrile		2200



FUNCTIONAL GROUP REPRESENTATION

Alcohol	Alkyne	Amine	Alkene
<chem>R-OH</chem>	<chem>R-C#C</chem>	<chem>R-NH2</chem>	<chem>R2C=CR2</chem>
<chem>R-O-R'</chem>	<chem>R-C#C-R'</chem>	<chem>R2N-R'</chem>	<chem>R2C=CR2</chem>
<chem>R-C(=O)R'</chem>	<chem>R-C#C-R'</chem>	<chem>R2N-R'</chem>	<chem>R2C=CR2</chem>
Alkene	Alkyne	Amine	Alcohol
<chem>R2C=CR2</chem>	<chem>R-C#C-R'</chem>	<chem>R2N-R'</chem>	<chem>R-OH</chem>
Aldehyde	Ester	Ether	
<chem>R-C(=O)H</chem>	<chem>R-C(=O)OR'</chem>	<chem>R-O-R'</chem>	
Ether	Carbonyl	Alcohol	
<chem>R-O-R'</chem>	<chem>R-C(=O)R'</chem>	<chem>R-OH</chem>	
Amide	Amine	Nitrile	
<chem>R-C(=O)NH2</chem>	<chem>R-NH2</chem>	<chem>R-C#C-R'</chem>	

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