Simplified Infrared Correlation Chart			
	Type of Vibration	Frequency (cm^{-1})	Intensity
C-H	Alkanes (stretch)	3000-2850	s
	$-CH_3$ (bend)	1450 and 1375	m
	$-CH_2-$ (bend)	1465	m
	Alkenes (stretch)	3100-3000	m
	(out-of-plane bend)	1000-650	s
	Aromatics (stretch)	3150-3050	s
	(out-of-plane bend)	900-690	s
	Alkyne (stretch)	~3300	s
	Aldehyde	2900-2800	w
		2800-2700	w
C-C	Alkane not interpretatively useful		
C=C	Alkene	1680-1600	m-w
	Aromatic	1600 and 1475	m-w
C≡C	Alkyne	2250-2100	m-w
C=O	Aldehyde	1740-1720	s
	Ketone	1725-1705	s
	Carboxylic Acid	1725-1700	s
	Ester	1750-1730	s
	Amide	1670-1640	s
	Anhydride	1810 and 1760	s
	Acid Chloride	1800	s
C-O	Alcohols, Ethers, Esters, Carboxylic Acids, Anhydrides	1300-1000	s
O-H	Alcohols, Phenols		
	Free	3650-3600	m
	H-bonded	3500-3200	m
	Carboxylic Acids	3400-2400	m
N-H	Primary and Secondary Amines and Amides		
	(stretch)	3500-3100	m
	(bend)	1640-1550	m-s
C-N	Amines	1350-1000	m-s
C=N	Imines and Oximes	1690-1640	w-s
C≡N	Nitriles	2260-2240	m
X=C=Y	Allenes, Ketenes, Isocyanates, Isothiocyanates	2270-1950	m-s
N=O	Nitro ($R-NO_2$)	1550 and 1350	s
S-H	Mercaptans	2550	w
S=O	Sulfoxides	1050	s
	Sulfones, Sulfonyl Chlorides, Sulfates, Sulfonamides	1375-1300 and 1200-1140	s s
C-X	Fluoride	1400-1000	s
	Chloride	800-600	s
	Bromide, Iodide	<667	s