

红外特征吸收峰

键	化合物类型	吸收频率, cm^{-1}
C-H	Alkanes	2960-2850(s) 伸缩
		1470-1350(v) 剪式 和 弯曲
	CH₃ Umbrella Deformation	1380(m-w) - 双峰- isopropyl, <i>t</i> -butyl
C-H	Alkenes	3080-3020(m) 伸缩
		1000-675(s) 弯曲
C-H	Aromatic Rings	3100-3000(m) 伸缩
	Phenyl Ring Substitution Bands	870-675(s) 弯曲
	Phenyl Ring Substitution Overtones	2000-1600(w) - fingerprint region
C-H	Alkynes	3333-3267(s) 伸缩
		700-610(b) 弯曲
C=C	Alkenes	1680-1640(m,w) 伸缩
C ^o C	Alkynes	2260-2100(w,sh) 伸缩
C=C	Aromatic Rings	1600, 1500(w) 伸缩
C-O	Alcohols, Ethers, Carboxylic acids, Esters	1260-1000(s) 伸缩
C=O	Aldehydes, Ketones, Carboxylic acids, Esters	1760-1670(s) 伸缩
O-H	Monomeric -- Alcohols, Phenols	3640-3160(s,br) 伸缩
	Hydrogen-bonded -- Alcohols, Phenols	3600-3200(b) 伸缩
	Carboxylic acids	3000-2500(b) 伸缩
N-H	Amines	3500-3300(m) 伸缩
		1650-1580 (m) 弯曲
C-N	Amines	1340-1020(m) 伸缩
C \equiv N	Nitriles	2260-2220(v) 伸缩
NO ₂	Nitro Compounds	1660-1500(s) 不对称伸缩
		1390-1260(s) 对称伸缩