

IR PROBLEMS 1

The IR spectra of six compounds are shown. Complete the table to match the spectra to the compounds. Identify any key signals you used to identify each compound. You may not be able to decide between two of the compounds.

	butanoic acid		butanone	but-3-en-1-ol
Structure				
Spectrum				
Bond(s)				
Wavenumber range (cm ⁻¹)				
	2-methylpropan-2-ol	2-	-ethylbutan-1-ol	pent-1-ene
Structure				
Spectrum				
Bond(s)				
Wavenumber range (cm ⁻¹)				
P	E-004 ATVENERATE(*) 1 1590 1000	100 - 100 -	Q / / / / / / / / / / / / / / / / / / /	008 NEWSMAREEW-1 1390 390
R 50	R		S	
500	MACCIONAL EN-II	1100 -	U	NOVENDRICK OF THE PROPERTY OF