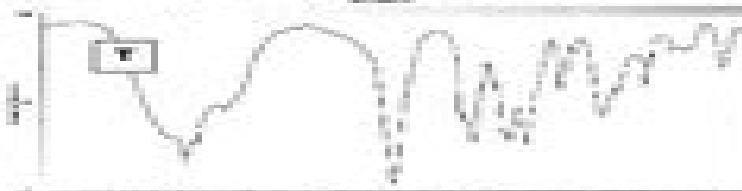




# IR PROBLEMS 1

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-2-en-1-ol
Structure	<chem>CCCC(=O)O</chem>	<chem>CCCC(=O)C</chem>	<chem>CCC=CCO</chem>
Spectrum	T	R	S
Signal(s)	O-H acid	C=O	C=C O-H alcohol
Wavenumber range (cm <sup>-1</sup> )	2500 - 3000	1650 - 1750	1600 - 1450 3300 - 3550
	2-methylpropan-2-ol	2-methylbutan-1-ol	pent-1-ene
Structure	<chem>CC(C)(C)C(O)C</chem>	<chem>CCC(C)CO</chem>	<chem>CCC=CC</chem>
Spectrum	Q / U	Q / U	P
Signal(s)	O-H alcohol	O-H alcohol	C=C
Wavenumber range (cm <sup>-1</sup> )	3200 - 3550	3200 - 3550	1600 - 1450



# Ir Problems Answers Chemsheets

**Chao Zhang**



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