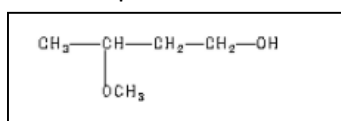


## Revision -spectra

- 1) A compound was analysed and found to contain 57.7% carbon, 11.5% hydrogen and 30.8% oxygen by mass.

- Find the empirical formula  
 $C_5H_{12}O_2$
- Find the molecular formula  
 $C_5H_{12}O_2$
- What can be deduced from the IR spectrum. *Alcohol O-H (3400)*  
*C-O at 1400*
- How many non-equivalent hydrogens are present in the molecule. **6**
- Draw the structural formula of the compound.



- What fragment is responsible for the peak at  $m/z$  59?

