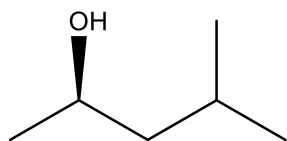


## Answer on Question #53489 – Chemistry – Inorganic Chemistry

### Question:

Tell me how many no of signals in  $^{13}\text{C}$  NMR spectrum of (R)-4-methylpentane-2-ol are ????

### Answer:

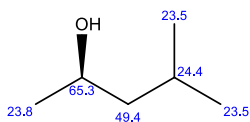


(R)-4-methylpentane-2-ol

Its  $^{13}\text{C}$  NMR spectrum has five signals because there are five non-equivalent carbon atoms in the structure, while carbon atoms of methyl groups bound with C4 are equivalent give signal at 23.5 ppm.

Its spectrum is:

ChemNMR  $^{13}\text{C}$  Estimation



Estimation quality is indicated by color: good, medium, rough

