



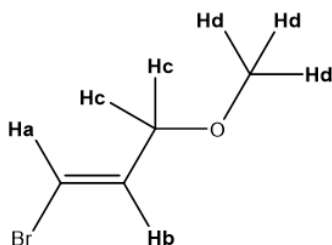
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The ^1H NMR of *trans*-1-bromo-3-methoxypropene shows the following chemical shifts for hydrogens Ha, Hb, Hc and Hd. The coupling constants for these hydrogen atoms are $J_{ab} = 14$ Hz, $J_{ac} = 1.75$ Hz and $J_{bc} = 5.8$ Hz.



Hydrogen Chemical Shift

σ 6.27

σ 6.19

σ 3.82

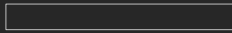
σ 3.26

On the answer sheet give the following information:

- (a) In the box provided, identify which hydrogen, Ha, Hb, Hc or Hd, is responsible for each of the above absorptions.
- (b) In the box provided, Sketch the spin-spin coupling pattern that would be observed for the hydrogen Hb. Clearly show the coupling constants on your diagram.

VIDEO SOLUTION





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Todd's Test Prep
2255 Glades Road
Suite 324A
Boca Raton, Florida 33431
E-mail: help@orgoreview.com

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