# Factors Affecting Chemical Shift in Proton NMR Spectroscopy

12 Jul,2020 Tutor

- **Electronegativity:** more electronegative element leads to deshielding of protons and signal appears at downfield and vice ver
- **Anisotropy effect:** those compounds wh are having a double or triple bond involv electron which produces an induced fiel that may change the position of electron and hence lead to shielding or deshieldi
- **Hydrogen bonding:** it increases the chain length which results in the deshielding of protons and shifted downfield in the spectrum. If it decreases the shielding of protons and upfield shifting will be there.
- **Vander Waal deshielding:** In the complex molecules, it may be possible that some protons may cause steric hindrance which may lead to the deshielding of protons.

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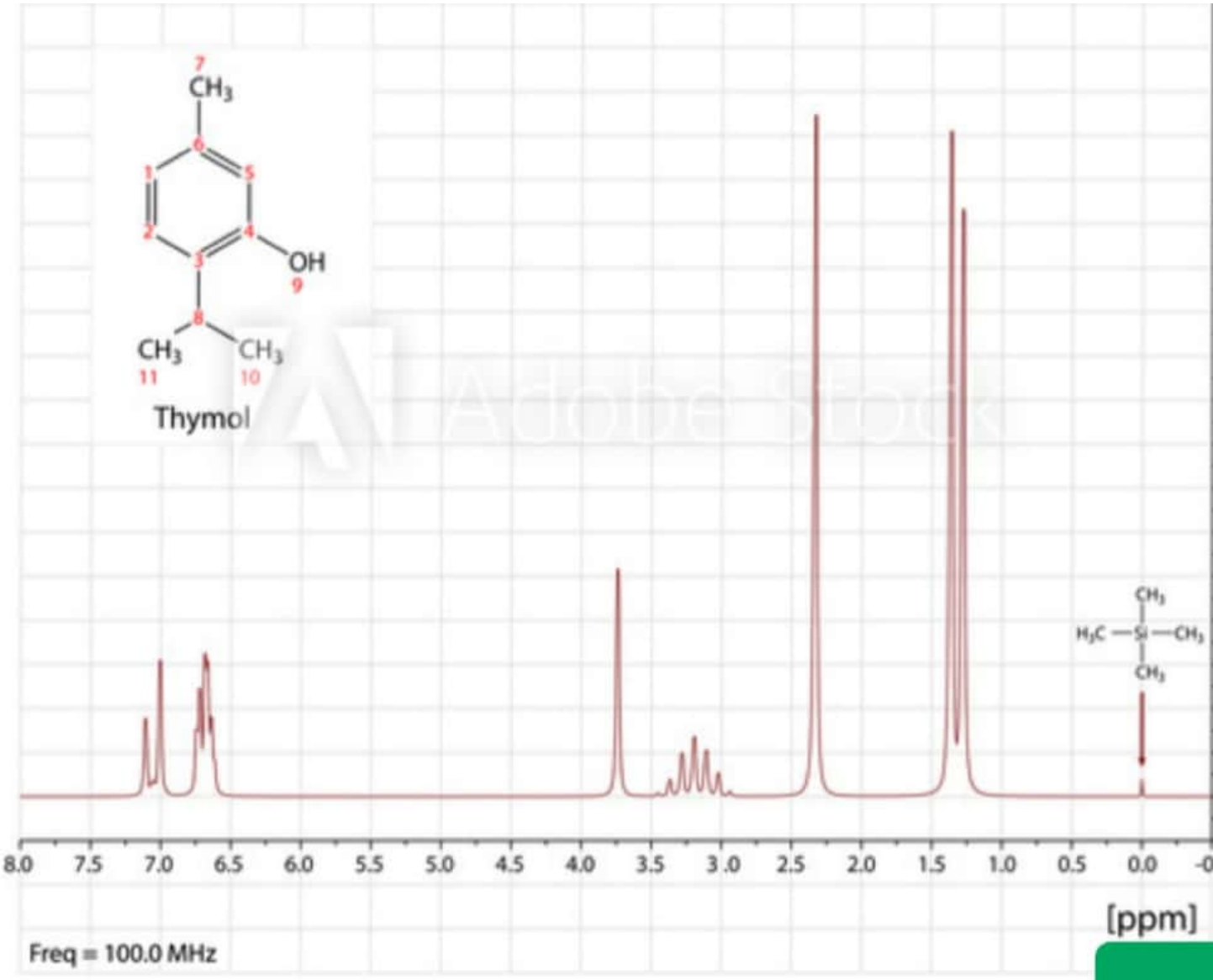


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