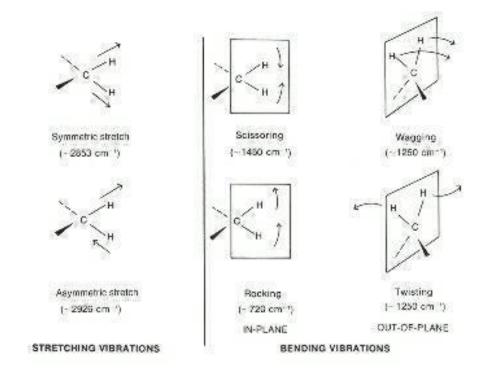
The two primary modes of vibration are stretching and bending Stretching modes are typically of higher energy than bending modes

Stretching modes are often divided into two a symmetric and asymmetric stretch; the asymmetric stretch is usually of higher energy



## CH2 bending modes at 1465 cm-1

In case oh cyclohexanol CH2 group show sharp medium bending mode of vibration. Cyclohexanol is cyclic system it show a bending sharp medium band at 1454 cm^-. In simple alkane bending at 1465 Cm^- but in cyclic strain system frequency of band decrease it show at 1454 Cm^-.

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