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vibrations We investigate a molecule
consisting of N atoms, which has $3N$
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Chapter 7 - Symmetry and Spectroscopy - Molecular ...

Alternatively, given the IR or Raman spectrum, the symmetry of a molecule may be inferred. In both IR and Raman spectroscopy the molecule is viewed as containing moving vectors. How these vectors are affected by symmetry will provide a means to determine how

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molecules according to their symmetry. Molecular symmetry is a fundamental concept in chemistry, as it can be used to predict or explain many of a molecule's chemical properties, such as its dipole moment and its allowed spectroscopic transitions. To do this it is necessary to classify the states of the molecule using the irreducible

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representations from the character table of the symmetry group

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Symmetry Effects on Infrared Active Vibrations ICBST: For T_d symmetry, only 1 IR Active stretch, For C_{2v} symmetry, 4 IR Active stretches. 31 Thus, $\Gamma S-O = 2 A_1 + E$ for C_{3v} (unidentate) A_1 and E are both IR active (i.e., z and (xy))
Therefore: 3 IR bands expected for C_{3v}

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