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## ***molecular symmetry wikipedia***

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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 whether or not it has a dipole moment as well as its allowed spectroscopic transitions to do this it is necessary to use group theory

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the symmetry gallery a collection of over 120 unique molecules and polyhedra with interactive display of all symmetry elements and animation of all operations the molecules are organized by point group so you can select examples to demonstrate particular symmetry elements

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the symmetry of a molecule or ion can be described in terms of the complete collection of symmetry operations it possesses the symmetry elements that a molecule and any other 3 d object may possess are discussed below

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molecular symmetry know intuitively what symmetry means how to make it quantitative will stick to isolated finite molecules not crystals symmetry operation carry out some operation on a molecule or other object e g rotation

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a geometrical transformation which turns a molecule into an indistinguishable copy of itself is called a symmetry operation a symmetry operation can consist of a rotation about an axis a reflection in a plane an inversion through a point or some combination of these

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symmetry operation a transformation in three dimensional space that preserves the size and shape of a molecule and which brings it into an orientation in three dimensional space physically indistinguishable from the original one is called a symmetry operation

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a symmetry operation is an operation that is performed to a molecule which leaves it indistinguishable and superimposable on the original position symmetry operations are performed with respect to symmetry elements points lines or planes

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molecular symmetry chapter first online 18 january 2017 pp 207 241 cite this chapter download book pdf download book epub molecular physical chemistry josé j c teixeira dias 2542 accesses abstract symmetry manifests itself in the shapes of things from macroscopic objects to molecules and atoms

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the symmetry painter provides an interface to draw symmetry elements over three dimensional molecular models for this purpose users define the symmetry elements as geometrical entities in space relative to the molecule at hand

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molecular symmetry imposes constraints on molecular properties 1 a symmetry

operation is an action that leaves an object looking the same after it has been carried out a symmetry element is a point straight line or plane flat surface with respect to which a symmetry operation is carried out

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in this section we will cover the basic ideas of symmetry in chemistry and the nomenclature that is used to describe molecular shapes point group or schönflies notation we then introduce character tables and more notation which is used to describe the symmetries of molecular properties

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molecular symmetry i what is symmetry and why it is important some object are more symmetrical than others a sphere is more symmetrical than a cube because it looks the same after rotation through any angle about the diameter

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from the standpoint of infrared and raman spectroscopy molecules are classified using the five symmetry elements 1 a center of symmetry designated by  $i$  2 a  $p$  fold rotation axis of symmetry designated by  $C_p$  3 planes of symmetry designated by  $\sigma$  with subscripts  $v$   $h$  or  $d$  depending on whether the plane is a vertical a horizontal or a di

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molecular symmetry is a basic idea in chemistry it is about the symmetry of molecules it puts molecules into groups according to their symmetry it can predict or explain many of a molecule s chemical properties 1 2 3 4 5 chemists study symmetry to explain how crystals are made up and how chemicals react

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william g harter tyle c reimer part of the book series springer handbooks shb  
3729 accesses abstract molecules are aggregates of two or more nuclei bound  
by at least one electron

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a symmetry operation is an operation that is performed to a molecule which  
leaves it indistinguishable and superimposable on the original position  
symmetry operations are performed with respect to symmetry elements points  
lines or planes definition symmetry operation

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molecular symmetry in chemistry describes the symmetry present in molecules and the classification of molecules according to their symmetry molecular symmetry is a fundamental concept in chemistry as many of a molecule's chemical properties such as its dipole moment and its allowed spectroscopic transitions based on selection rules such as

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symmetry operation a transformation in three dimensional space that preserves the size and shape of a molecule and which brings it into an orientation in three dimensional space physically indistinguishable from the original one is called a symmetry operation

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singlet to triplet intersystem crossing isc in organic molecules is

intimately connected with their geometries by modifying the molecular shape symmetry selection rules pertaining to spin orbit coupling can be partially relieved leading to extra matrix elements for increased isc

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chapter information abstract this chapter describes symmetry operations and elements found in molecules operators are introduced in an intuitive manner to smooth the way for formal consideration of operators in the next chapter readers learn how to identify the point group to which a rigid molecule belongs

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