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*Reflectional
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Group

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table of

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underlies many
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phenomena.

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types of bonding
that can occur
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symmetry element
is the identity,
E Such molecules
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1 point group
The following
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Point groups are used in Group Theory, the mathematical analysis of groups, to determine properties such as a molecule's molecular orbitals.

Assigning Point Groups While a point group

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contains all of
the symmetry
operations that
can be performed
on a given
molecule, it is
not necessary to
identify all of
these operations
to determine the
molecule's
overall point
group.

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this chapter.
The basic
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are also
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C_s , C_i , C_1 .

The Cyclic

Groups: C_n , S

n . Axial Groups

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treatment of

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within the
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framework known
as group theory.
Once we have
classified the
symmetry of a
molecule, group
theory provides
a powerful set
of tools that
provide us with

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insight into
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