

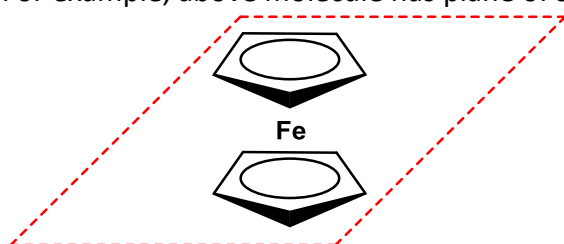
Question #66403, Chemistry / Organic Chemistry

What are various elements of symmetry? Give one example illustrating the presence of such elements in them.

Answer :

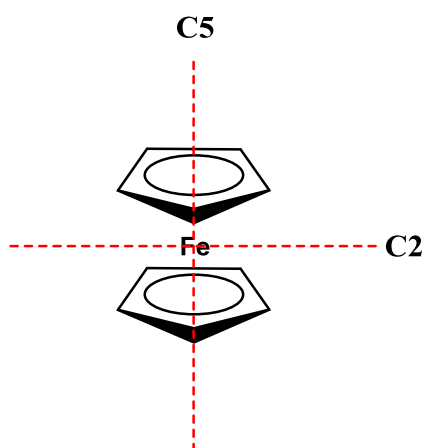
A symmetry element is a line, a plane or a point in or through an object, about which a rotation or reflection leaves the object in an orientation indistinguishable from the original.

For example, above molecule has plane of symmetry:



It is between two cyclopentadienyl rings, crossing Fe atom

Also it has axes C5



And C2