

Does the molecule have no symmetry elements other than E ?

Yes **Point group:** C_1 No

Does the molecule have only a mirror plane?

Yes **Point group:** C_s No

Does the molecule have only an inversion center?

Yes **Point group:** C_i No

Does the molecule have a proper rotation axis C_n ?

No **Unclassified: recheck symmetry elements** Yes

Does it have n vertical mirror planes (σ_v)?

Yes **Point group:** C_{nv} No

Does it have a horizontal mirror plane (σ_h)?

Yes **Point group:** C_{nh} No **Point group:** C_n