

Curiosity: Symmetry Can Hide a Dipole

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Bond polarity is local, while a molecular dipole is a whole-structure model. When equal bond dipoles point in directions that cancel, a card can show polar bonds and still have zero net dipole. A different shape can prevent cancellation.

This makes structure-property reasoning a useful exercise in competing explanations: polarity matters, but so can shape, packing, mass, and conditions.