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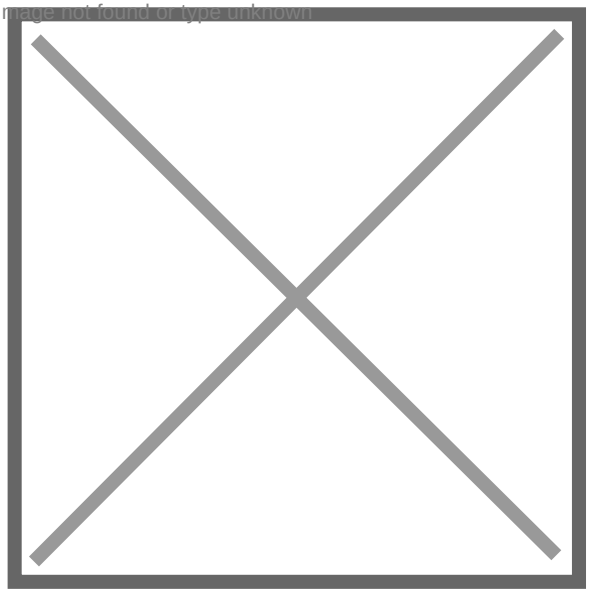
Product Name :

Orbital Model of Sp2 Hybridization

Product Code :

SCI-291/114

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Description :

Orbital Model of Sp2 Hybridization (Product Code: SCI-291/114) is a three-dimensional teaching model used to show how one s and two p orbitals combine into sp2 hybrid orbitals arranged in a flat, trigonal planar shape. Designed for teachers and students of organic, inorganic and stereochemistry, it contains a number of atomic elements for building different kinds of molecules. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific instruments manufacturer in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Topic	sp2 hybridization (trigonal planar arrangement)
Designed for	Teachers and students of organic, inorganic and stereochemistry
Purpose	Gives a three-dimensional idea of structural formulae that are difficult to explain on a two-dimensional blackboard
Contents	A number of atomic elements to make different kinds of molecules
Product code	SCI-291/114
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Sp2 Hybridization Model Used For?

The model is at its best when explaining the carbon–carbon double bond. In ethene each carbon uses three sp2 hybrid orbitals that lie in one plane, while the remaining unhybridised p orbital stands above and below that plane and overlaps sideways with its neighbour to form the pi bond. The same planar pattern appears in boron trifluoride, in carbonyl groups and around each carbon of a benzene ring.

On a blackboard these shapes collapse into flat drawings, so students often miss why a double bond cannot rotate freely. Building the structure from the kit's atomic elements and turning it in the hand makes the point clear. Teachers of chemistry model organic lessons can also use it to introduce geometric isomerism.

OEM Manufacturer

The Orbital Model of Sp2 Hybridization comes from Jain Scientific Equipments Private Limited, which trades as ScienceLab and is the model's OEM (original equipment manufacturer). It is made at the company's own licensed factory at Saha, Ambala, Haryana, India, and supplied factory-direct to schools, colleges, universities, dealers and importers. Ask the manufacturer directly about repeat orders or matching sp3 models. More on the ScienceLab profile.

Related Laboratory Equipment

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