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Product Name :

Organic Chemistry Molecular Models Kits

Product Code :

SLE/Mo/02



Description :

Organic Chemistry Molecular Models Kits (Product Code: SLE/Mo/02) is a ball-and-stick molecular model kit used to build organic molecules and electron-orbital models in school and college chemistry. It contains 126 atoms, including carbon, nitrogen, oxygen, hydrogen, sulfurand chlorine, 150 single, double and triple bonds, 30 electron cloud orbitals and a bond-disassemble tool. This molecular model kit for organic chemistry is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Atoms	126, including carbon, nitrogen, oxygen, hydrogen, sulfur, chlorine and others
Bonds	150 molecular bonds: single, double and triple
Electron cloudorbitals	30
Tool	1 bond-disassemble tool
Atom material	PP (polypropylene), glossy finish
Bond material	LDPE (low-density polyethylene), chosen for its bending property
Example builds	Benzene, ethylene and methane with 4-hole carbon and 1-hole hydrogen atoms; methane electron-orbital model with a 5-hole carbon and 1-hole hydrogen atoms
Product code	SLE/Mo/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Organic Chemistry Molecular Model Kit Used For?

Structural formulas on paper hide the three-dimensional shapes that control how organic molecules behave. With this kit, students build methane to see the tetrahedral arrangement around carbon, ethylene to see the flat geometry of a double bond and benzene to see a planar six-membered ring, then compare single, double and triple bonds side by side. The flexible LDPE bonds make curved double and triple bonds and rings easier to form.

The 30 electron cloud orbitals take the lesson further: fitted to a 5-hole carbon with hydrogen atoms, they show the orbital picture of methane that lies behind the ball-and-stick view, a step many students find hard to imagine. Use the bond-disassemble tool to separate tight joints instead of pulling with fingers, and sort the atoms by element into a tray after each class so the kit stays complete.

OEM Manufacturer

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