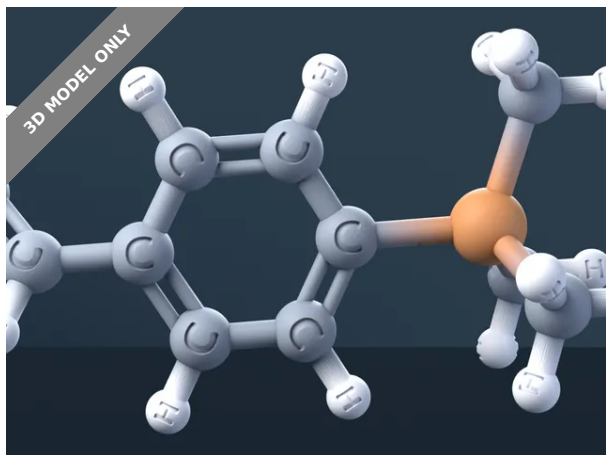




Trimethyl(4-vinylphenyl)silane 3D Molecular Model — CAS 1009-43-4



MolGod Scientific

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Summary

Free educational Trimethyl(4-vinylphenyl)silane model (CAS 1009-43-4), engraved element symbol on every atom.

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Trimethyl(4-vinylphenyl)silane (C₁₁H₁₆Si, CAS 1009-43-4) — a free educational 3D molecular model for teachers and students, by MolGod.org. Read the atoms directly: each sphere bears an engraved element symbol.

Start with the ring system: Trimethyl(4-vinylphenyl)silane has one aromatic 6-membered ring; in total the model carries 28 bonds (21 single, 1 double and 6 aromatic, drawn in Kekulé form). Hand the model round and let students tally the engraved atoms: 11 C + 16 H + 1 Si, 28 in total. Ask the class to locate the carbon-carbon double bond (C=C) and name each one. It makes aromaticity and delocalised electrons easier to see. Pair it with 4-Chlorostyrene (CAS 24991-47-7) and styrene (CAS 100-42-5) from the same collection to compare closely related structures.

Part of the MolGod.org free library of engraved molecules for chemistry classrooms. Teachers: let students set the model beside a skeletal formula and list what the drawing omits.

Full record and more free models: https://molgod.org/molecule/1009-43-4/?utm_source=printables&utm_medium=referral&utm_campaign=edu-3d-models

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Same file on Wikimedia Commons: [https://commons.wikimedia.org/wiki/File:Trimethyl\(4-vinylphenyl\)silane-3D-molecular-model-engraved-CAS-1009-43-4.stl](https://commons.wikimedia.org/wiki/File:Trimethyl(4-vinylphenyl)silane-3D-molecular-model-engraved-CAS-1009-43-4.stl)

A ball-and-stick model of Trimethyl(4-vinylphenyl)silane with each element symbol recessed into its atom sphere, generated by MolGod.org from a PubChem-computed 3D conformer (not an experimental crystal structure); atomic coordinates and connectivity are unchanged. STL mesh: 342,940 triangles, closed (watertight) single solid. Coordinates in ångström (STL stores no unit) — scale the model deliberately in your slicer.

Chemical identity

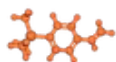
- CAS Registry Number: 1009-43-4
- Molecular formula: C₁₁H₁₆Si
- Molar mass: 176.33 g/mol (exact mass 176.102127045)
- IUPAC name: (4-ethenylphenyl)-trimethylsilane
- MolGod ID: MG_908-829-021-93 (https://molgod.org/id/MG_908-829-021-93)
- PubChem CID: 595282 (<https://pubchem.ncbi.nlm.nih.gov/compound/595282>)
- Wikidata: Q72514566 (<https://www.wikidata.org/wiki/Q72514566>)
- InChIKey: OXHSYXPNALRSME-UHFFFAOYSA-N
- SMILES: C[Si](C)(C)C1=CC=C(C=C1)C=C

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Model files

trimethyl4-vinylphenylsilane-3d-molecular-model-eng... .stl



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