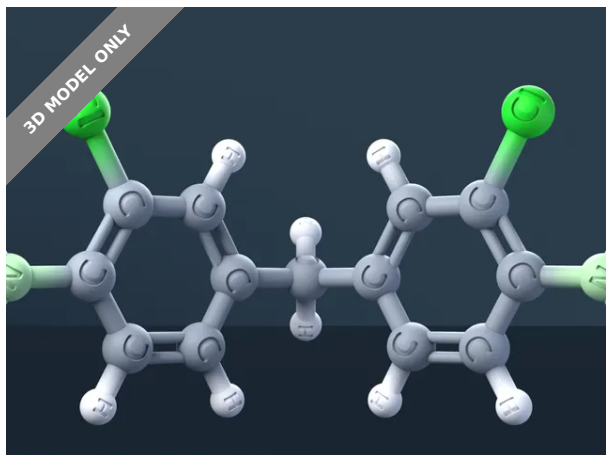




3,3'-Dichloro-4,4'-Diaminodiphenylmethane 3D Molecular Model — CAS 101-14-4



MolGod Scientific

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Summary

Free educational 3,3'-Dichloro-4,4'-Diaminodiphenylmethane model (CAS 101-14-4), engraved element symbol on every atom.

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3,3'-Dichloro-4,4'-Diaminodiphenylmethane (C₁₃H₁₂Cl₂N₂, CAS 101-14-4) — a free educational 3D molecular model for teachers and students, by MolGod.org. Whatever the filament colour, each atom reads clearly thanks to its engraved symbol.

At its heart, 3,3'-Dichloro-4,4'-Diaminodiphenylmethane is built around two 6-membered rings, both aromatic. The model shows 30 bonds: 18 single and 12 aromatic, drawn in Kekulé form. Use the engraved letters like a register: call out each element and tick it off until the class reaches 13 C + 12 H + 2 Cl + 2 N (29 atoms altogether). Ask the class to locate the two

primary amino groups (-NH₂) and the two C-Cl bonds and name each one. It makes aromaticity and delocalised electrons, amines and basicity, as well as organohalogen compounds and carbon-halogen bonds easier to see. Its closest structural relative in the MolGod.org collection is Benzenamine, 2-chloro-4-fluoro- (CAS 2106-02-7); printing them side by side makes a quick compare-and-contrast exercise.

MolGod.org publishes its molecular models free of charge for teachers and students. Teachers: use the model for an exit-ticket question on the structure the class has just studied.

Full record and more free models: https://molgod.org/molecule/101-14-4/?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:3,3'-Dichloro-4,4'-Diaminodiphenylmethane-3D-molecular-model-engraved-CAS-101-14-4.stl>

A ball-and-stick model of 3,3'-Dichloro-4,4'-Diaminodiphenylmethane 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: 386,094 triangles, closed (watertight) single solid. Coordinates in ångström (STL stores no unit) — scale the model deliberately in your slicer.

Names in other languages: 4,4'-Methylenbis(2-chloranilin) (de); 4,4'-Méthylènebis (fr); Bisamine (nl).

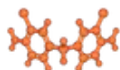
Chemical identity

- CAS Registry Number: 101-14-4
- Molecular formula: C₁₃H₁₂Cl₂N₂
- Molar mass: 267.15 g/mol (exact mass 266.0377538)
- IUPAC name: 4-[(4-amino-3-chlorophenyl)methyl]-2-chloroaniline
- MolGod ID: MG_872-285-813-26 (https://molgod.org/id/MG_872-285-813-26)
- PubChem CID: 7543 (<https://pubchem.ncbi.nlm.nih.gov/compound/7543>)
- Wikidata: Q2257591 (<https://www.wikidata.org/wiki/Q2257591>)
- EC number: 202-918-9
- ChemSpider ID: 7262
- InChIKey: IBOFVQJTBBUKMU-UHFFFAOYSA-N
- SMILES: C1=CC(=C(C=C1CC2=CC(=C(C=C2)N)Cl)Cl)N

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Model files

33-dichloro-44-diaminodiphenylmethane-3d-molecular-... .stl



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