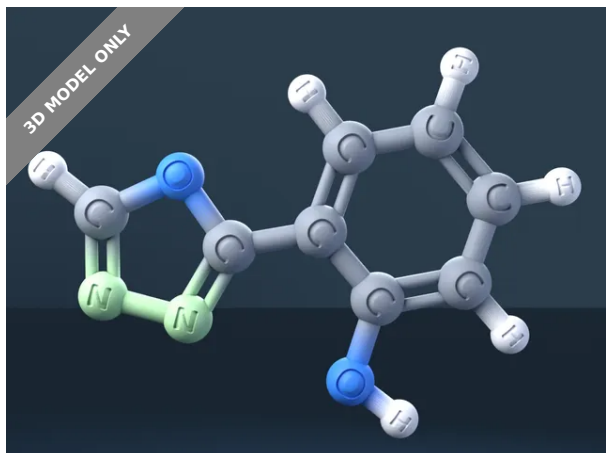




Fenadiazole 3D Molecular Model — CAS 1008-65-7



MolGod Scientific

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Summary

Free educational Fenadiazole model (C₈H₆N₂O₂, CAS 1008-65-7) with an engraved element symbol on every atom.

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Fenadiazole (C₈H₆N₂O₂, CAS 1008-65-7) — 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, Fenadiazole is built around two rings (one 5-membered and one 6-membered), both aromatic. The model shows 19 bonds: 8 single and 11 aromatic, drawn in Kekulé form. Quick starter: ask students to count the engraved symbols (8 C + 6 H + 2 N + 2 O) and check that they add up to 18 atoms and the formula C₈H₆N₂O₂. Lesson link: aromaticity and delocalised electrons, heteroaromatic rings (nitrogen inside an aromatic ring), as well as phenols and hydrogen bonding. Isomerism made physical: line it up with 2,3-Dihydro-1,4-phthalazinedione (CAS 1445-69-8) and let

the class describe how the same atoms are put together differently. This molecule gives students these functional groups to identify: phenolic hydroxyl group (Ar-OH) and two pyridine-type ring nitrogens.

MolGod.org offers this engraved model free to anyone teaching or learning chemistry. Teachers: use it as a hands-on starter before drawing the structural formula on the board.

Full record and more free models: https://molgod.org/molecule/1008-65-7/?utm_source=printables&utm_medium=referral&utm_campaign=edu-3d-models

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A ball-and-stick model of Fenadiazole 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: 249,470 triangles, closed (watertight) single solid. Coordinates in ångström (STL stores no unit) — scale the model deliberately in your slicer.

Names in other languages: (zh).

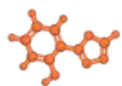
Chemical identity

- CAS Registry Number: 1008-65-7
- Molecular formula: C₈H₆N₂O₂
- Molar mass: 162.15 g/mol (exact mass 162.042927438)
- IUPAC name: 2-(1,3,4-oxadiazol-2-yl)phenol
- MolGod ID: MG_852-459-193-68 (https://molgod.org/id/MG_852-459-193-68)
- PubChem CID: 13883 (<https://pubchem.ncbi.nlm.nih.gov/compound/13883>)
- Wikidata: Q5442960 (<https://www.wikidata.org/wiki/Q5442960>)
- EC number: 680-965-8
- ChemSpider ID: 4528802
- InChIKey: OINXXHYENYVYPB-UHFFFAOYSA-N
- SMILES: C1=CC=C(C(=C1)C2=NN=CO2)O

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Model files



fenadiazole-3d-molecular-model-engraved-cas-1008-65... .stl

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