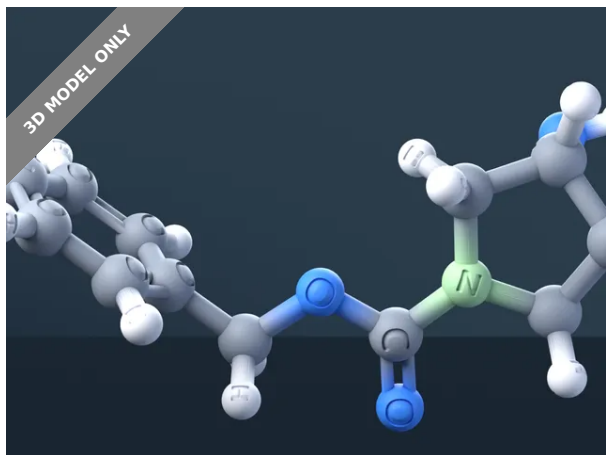




(R)-(-)-1-CBZ-3-pyrrolidinol 3D Molecular Model — CAS 100858-33-1



MolGod Scientific

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Summary

Free educational (R)-(-)-1-CBZ-3-pyrrolidinol model (CAS 100858-33-1), engraved element symbol on every atom.

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(R)-(-)-1-CBZ-3-pyrrolidinol (C₁₂H₁₅NO₃, CAS 100858-33-1) — a free educational 3D molecular model for teachers and students, by MolGod.org. Every sphere shows which element it is through an engraved symbol, not a colour code.

Ask students to describe the framework of (R)-(-)-1-CBZ-3-pyrrolidinol before anything else: two rings (one 5-membered and one 6-membered), one of them aromatic. Then count the bonds together; there are 32 (25 single, 1 double and 6 aromatic, drawn in Kekulé form). Give each pair of students the model and a blank sheet: recording every engraved symbol

should lead them to 12 C + 15 H + 1 N + 3 O, which is 31 atoms. Functional groups to find on the model: carbamate group (-NH-CO-O-) and hydroxyl group (-OH). Stereochemistry in your hand: (R)-(-)-1-CBZ-3-pyrrolidinol carries one stereocentre (R), so students can check each label against the CIP rules. Use it when you teach aromaticity and delocalised electrons, chirality, enantiomers and CIP (R/S) rules, the carbonyl group (C=O), as well as alcohols and hydrogen bonding.

Part of the MolGod.org free library of engraved molecules for chemistry classrooms. Teachers: print one per group and let students check the structure against the formula.

Full record and more free models: https://molgod.org/molecule/100858-33-1/?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:\(R\)-\(-\)-1-CBZ-3-pyrrolidinol-3D-molecular-model-engraved-CAS-100858-33-1.stl](https://commons.wikimedia.org/wiki/File:(R)-(-)-1-CBZ-3-pyrrolidinol-3D-molecular-model-engraved-CAS-100858-33-1.stl)

A ball-and-stick model of (R)-(-)-1-CBZ-3-pyrrolidinol 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: 381,278 triangles, closed (watertight) single solid. Coordinates in ångström (STL stores no unit) — scale the model deliberately in your slicer.

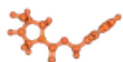
Chemical identity

- CAS Registry Number: 100858-33-1
- Molecular formula: C₁₂H₁₅NO₃
- Molar mass: 221.25 g/mol (exact mass 221.10519334)
- IUPAC name: benzyl (3R)-3-hydroxypyrrolidine-1-carboxylate
- MolGod ID: MG_139-565-113-21 (https://molgod.org/id/MG_139-565-113-21)
- PubChem CID: 11183628 (<https://pubchem.ncbi.nlm.nih.gov/compound/11183628>)
- Wikidata: Q72516459 (<https://www.wikidata.org/wiki/Q72516459>)
- EC number: 625-155-7
- InChIKey: MBLJFGOKYTZKMH-LLVKDONJSA-N
- SMILES: C1CN(C[C@@H]1O)C(=O)OCC2=CC=CC=C2

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Model files



r-1-cbz-3-pyrrolidinol-3d-molecular-model-engraved-... .stl

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