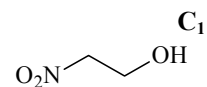
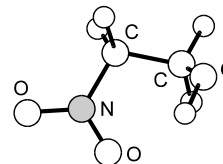


289
MW $\text{C}_2\text{H}_5\text{NO}_3$

2-Nitroethanol



One conformer was detected, which has a *gauche* arrangement for the O–C–C–N chain of atoms and is stabilized by a weak six membered intramolecular O–H...O hydrogen bond formed between the hydrogen atom of the hydroxyl group and one of the oxygen atoms of the nitro group. The N=O bond (where the oxygen atom is involved in intramolecular hydrogen bonding) and the C–C bond are deviated about 17° from the completely eclipsed positions. This conformer is at least 4 kJ mol^{-1} more stable than any other conformer. The nitro group is not rotating freely, but has a low torsional frequency of $34(10) \text{ cm}^{-1}$.



Marstokk, K.-M., Møllendal, H.: Acta Chem. Scand. **50** (1996) 505.