Chlorido(8-hydroxyquinoline-\(\kappa^2N,O\))(quinolin-8-olato-\(\kappa^2N,O\))zinc methanol monosolvate

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Abstract: In the title compound, \([\text{Zn}(C_9H_6NO)Cl(C_9H_7NO)]\cdot\text{CH}_3\text{OH}\), the \(\text{Zn}^{\text{II}}\) ion is \(N,O\)-chelated by both a neutral and a deprotonated quinolin-8-ol ligand, with a chloride ligand in the apical site completing the square-pyramidal coordination geometry. The \(\text{Zn}^{\text{II}}\) ion is displaced by 0.586 Å in the direction of the chloride ligand from the atoms forming the square plane. In the crystal, the components are linked by intermolecular O-H...O hydrogen bonds, generating chains along the \(b\) axis.