CHUMAKOV, Y., TSAPKOV, V., PETRENKO, P., PALOMARES-SÀNCHEZ, S., GULEA, A. Crystal structure of [2-(2-hydroxybenzilydene)- hydrazinecarboxoamidato(1-)][2-(2-hydroxybenzilydene)-hydrazinecarboxoamidato(2-)]chromium monohydrate. Journal of Structural Chemistry. 2013, Vol.54, No. 4, pp.824-828

The crystal structure of [2-(2-hydroxybenz lydene)hydrazinecarboxoamidato(1-)][2-(2-hydroxy-benzilydene)hydrazinecarboxoamidato(2-)]chromium monohydrate [Cr(HL)(L)]·H2O (I), where H2L is salicylaldehyde semicarbazone, is determined. In I the central chromium atom is octahedrally surrounded by two ligand anions in the mer position and coordinated azomethine nitrogen atoms, phenol and carbamide oxygen atoms. In both ligands phenol groups are deprotonated; in one of them the imine group is also deprotonated. In the crystal, complexes of the compound studied are hydrogen bonded into layers along the [100] direction, with π–π stacking being observed between the phenyl rings inside the layer along with the X–H···Cg (π ring) interaction.