



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The Influence of Solvents on Formation of the Molecular Geometry of $[\{\text{Fe}(\text{salphen})\}_2\text{O}]$

of
Physics

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Abstract: The crystal structure and magnetic properties of the complex (I) = $[\{\text{Fe}(\text{salphen})\}_2\text{O}] \cdot (\text{C}_4\text{H}_8\text{SO})$ and (II) = $[\{\text{Fe}(\text{salphen})\}_2\text{O}] \cdot (\text{C}_4\text{H}_8\text{O}_2)$ (salphen $\text{H}_2=\text{N}, \text{N}'\text{-o-phenylenebis}(\text{salicylidene-imine})$) were recently reported [1, 2]. This complex crystallized with the solvents of dimethyl sulfoxide and dioxane. In this paper, we investigate the influence of the solvents on the formation of the molecular geometry and study the orbital mechanism of the magnetic super-exchange interactions of this complex.



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