

**A new metallosupramolecular compound from Cr(III) atom bearing  
8-aminoquinoline and 2,6-pyridine-dicarboxylic acid**

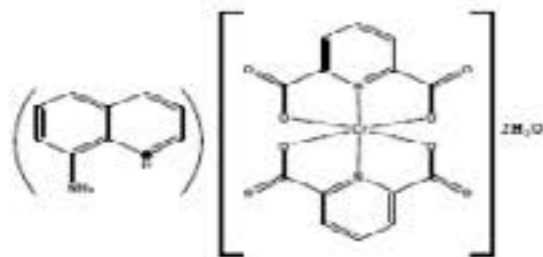
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8-Aminoquinoline (8-aq) and its derivatives have been attracted much attention because of antiprotozoal and other medicinal properties and also for their luminescence characteristics. 8-aq with possessing  $-NH_2$  group and N atom of pyridine ring is good candidate for constructing of supramolecular networks, not only for capability coordinating to metal ion as bidentate ligand but also for ability participating to H-bond and accepting proton. This property of it leads to synthesis materials for molecular recognition. In this contribution, the new supramolecular network constructed with discrete coordination compound,  $(8-aq)[Cr(pydc)_2] \cdot 2H_2O$  (pydcH<sub>2</sub>: pyridine-2,6-dicarboxylic acid), has been synthesized and characterized with elemental analysis, infra-red spectroscopy, and Melting point and single crystal X-ray diffraction. Cr(III) has been six coordinated with polyhedron CrN<sub>2</sub>O<sub>4</sub> and distorted octahedron geometry in

which  $(pydc)^{2-}$  act as tridentate ligand. 8-aq has been accepted a proton and neutralized a negative charge of complex and affects on ultimate supramolecular network with usage of excess intermolecular interactions.



**Reference**

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