

## Synthesis, Structure Identification of A New Complex of Mercury(II) Containing 8-Aminoquinoline

Masoud Mirzaei<sup>a</sup>, Hossein Eshtiaq-Hosseini, Hamid Reza Khavasib, Majid Mohammadi Abadeha

<sup>a</sup>Department of Chemistry, Ferdowsi University of Mashhad, Mashhad 917791436, IRAN

<sup>b</sup>Department of Chemistry, Shahid Beheshti University, Evin, Tehran 1083963115, IRAN

E-mail: [mirzaeeh@ferdowsi.um.ac.ir](mailto:mirzaeeh@ferdowsi.um.ac.ir)

A new complex of Hg(II) synthesized and characterized by elemental analysis, IR, <sup>1</sup>H and <sup>13</sup>C NMR spectroscopies. Spectroscopic data shows the chemical formula of resulting complex is [(HgII)28-AQ] (AQ: 8-aminoquinoline). Different noncovalent interactions such as ion-pairing and hydrogen bonding may play essential factors in the construction of extended networks in the crystal systems as can be observed in the title compound.

### Reference

[1] H.R. Khavasi, M. Azizpoor Fard, Cryst. Growth Des. 10(2010)1892

[2] H.R. Khavasi, B. Mir Mohammad Sadegh, Inorg. Chem. 49(2010)5356

[3] E. Bermejo, A. Castineiras, I. Garcia, D. X. West, Polyhedron 22(2003)1147

[4] B. Macias, I. Garcia, M. V. Villa, J. Borrás, A. Castineiras, F. Sanz, Polyhedron 21(2002)1229

[5] A. Morsali, M. Y. Masoomi, Coord. Chem. Rev. 253(2009)1882