

عنوان مقاله:

Preparation and Crystal Structure Determination of Zinc (II) Bromide Complexes at the Presence of Various Ligands

محل انتشار:

نشریه متدهای شیمیایی، دوره 3، شماره 5 (سال: 1398)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Aliakbar Dehno Khalaji - *Department of Chemistry, Faculty of Science, Golestan University, Gorgan, Iran*

Ensieh Shahsavani - *Ph.D Educated, Department of Chemistry, Payamenoor University, Mashhad, Iran*

Michal Dusek - *Institute of Physic ASCR, v. v. i., Na Slovance 2, 182 21, Prague, Czech Republic*

Monika Kucerakova - *Institute of Physic ASCR, v. v. i., Na Slovance 2, 182 21, Prague, Czech Republic*

خلاصه مقاله:

In this paper, we report the syntheses and crystal structure determination of three mononuclear and four-coordinated zinc(II) bromide complexes with chemical formula of $[Zn(tsc)_2]Br_2$ (1), $Zn(PPh_3)_2Br_2$ (2) and $Zn(Brcatsc)Br_2$ (3). The synthesized complexes are characterized by elemental analysis (CHN) and their crystal structures are investigated by single crystal X-ray diffraction. In complex 1, the TSC coordinates to the zinc(II) ion as a bidentate ligand via N and S atoms. In complex 3, the thiosemicarbazone ligand Brcatsc coordinates to zinc(II) ion as a monodentate ligand via S atom. In these complexes, the zinc(II) ion coordinated in a distorted tetrahedral coordination geometry.

کلمات کلیدی:

Zinc(II), Mononuclear, Distorted tetrahedral

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/941801>

