

عنوان مقاله:

Synthesis of (E)-3,3'-bis(pyridin-4-ylmethyl)-2,2'-dithioxo-2,2',3,3'-tetrahyro-4H,4'H-[5,5'-bithiazolyldiene]-4,4'-dione as a potential ligand in MOF synthesis

محل انتشار:

بیست و هفتمین کنفرانس شیمی آلی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Roghayyeh Hosseininia - *Department of Applied Chemistry, Faculty of Science, University of Mohaghegh Ardabili, Ardabil, Iran, ۵۶۱۹۹-۱۱۳۶۷*

Farough Nasiri - *Department of Applied Chemistry, Faculty of Science, University of Mohaghegh Ardabili, Ardabil, Iran, ۵۶۱۹۹-۱۱۳۶۷*

خلاصه مقاله:

Metal-Organic Frameworks (MOFs) or porous coordination polymers (PCPs) were constructed by the linkage of metal ions or clusters and organic ligands. As advantages of these materials, high surface area, regular porosity, tunable structure, mild conditions of synthesis, and wide range of applications can be mentioned. Because of these compounds are preferred to other similar porous materials such as activated carbon and zeolites, are of most interest to chemists. The most important of organic ligands are 4,4-bipyridines and benzenedicarboxylates.^{1,2} In this work we wish to report synthesis and characterization of (E)-3,3'-bis(pyridin-4-ylmethyl)-2,2'-dithioxo-2,2',3,3'-tetrahyro-4H,4'H-[5,5'-bithiazolyldiene]-4,4'-dione (1) that it has the potential to be used as a ligand in the synthesis of MOF's. The target ligand was synthesized through the one-pot reaction between 4-aminometyl pyridine as a primary amine and carbon disulfide in the presence of dimethylacetylenedicarboxylate under solvent-free condition.³

کلمات کلیدی:

MOF, birhodanines, organic ligands, 4-aminometyl pyridine

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1164221>

