Pursuing new facts in the coordination capabilities of (1-diaminomethylene)thiourea (HATU): products of the interaction with transition metal halides- structural investigations.

Autorzy

Małgorzata Hołyńska

Maria Korabik

Maria Kubiak

Rok wydania

2010

Czasopismo

Polyhedron

Numer woluminu

29

Strony

530-538

DOI

10.1016/j.poly.209.06.045

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

This work is part of our studies on the reactivity and crystal engineering of (1-diaminomethyl-ene)thiourea (HATU). Structure and other properties of the selected products of the interaction ofHATU with transition metal halides, also in the presence of 3% hydrogen peroxide as an oxidizingagent, have been investigated ((1) di-l-((1-diaminomethylene)thiouron-1-ium)-j4S:S-bis[chlori-do((1-diaminomethylene)-thiouron-1-ium-jS)copper(I)] tetrachloride [(C2H7N4S)4CuI2Cl2]Cl4, (2)catena(bis(3,5-diamino-1,2,4-thiadiazol-2-ium)-bis(l2-chlorido)-chloridocuprate(II)) [(C2H6N4S)2(Cu2Cl6)]1,(3)3,5-diamino-1,2,4-thiadiazol-2-ium pentachloridoferrate(III) (C2H6N4S)2[FeCl5], (4) 3,5-diamino-1,2,4-thiadiazol-2-ium chloride) (C2H6N4S)Cl, (5) 3,5-diamino-1,2,4-thiadiazol-2-ium tetrachloridozincate(II)(C2H7N4S)2[ZnCl4]. For (2) also magnetic properties have been characterized. Compound (3) containsunusual pentachloridoferrate(III) anions.

Słowa kluczowe

1-Diaminomethylene)thiourea (HATU)Copper(I), copper(II), iron(III) and zinc(II) complexes, X-ray diffraction

Adres publiczny

http://dx.doi.org/10.1016/j.poly.209.06.045

Strona internetowa wydawcy

http://www.elsevier.com