



Synthesis, X-ray structures and characterization of beryllium phthalocyanine and (2-ethoxyethanol)-aqua-beryllium phthalocyanine.

Autorzy

Ryszard Kubiak

A. Waśkowska

M. Śledź

Adam Jezierski

Rok wydania

2006

Czasopismo

Inorganica Chimica Acta

Numer woluminu

359

Strony

1344-1350

DOI

10.1016/j.ica.2005.10.059

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Crystals of beryllium phthalocyanine (**I**) were obtained from the reaction of beryllium pieces with 1,2-dicyanobenzene at 270 °C. In subsequent preparatory work the beryllium phthalocyanine was transformed into the monoaxially ligated compound (2-ethoxyethanol)-aqua-beryllium phthalocyanine (**II**). The crystal structures of (**I**) and (**II**) were determined by single crystal X-ray diffraction. Based on thermogravimetric measurements, a conversion of the beryllium phthalocyanine into beryllium phthalocyanine monohydrate in wet air has been followed in detail. The beryllium phthalocyanine monohydrate and compound **II** loose the ligated water and 2-ethoxyethanol in the 150 °C region. The EPR spectra of the beryllium phthalocyanine complexes as exposed to air have been recorded and discussed.

Słowa kluczowe

Beryllium phthalocyanine, Beryllium complexes, Crystal structures, Chemical characterization

Adres publiczny

<https://doi.org/10.1016/j.ica.2005.10.059>

Strona internetowa wydawcy

<http://www.elsevier.com>