

## **Complexes of podand-containing bis(dithiophosphonate) ligands with cobalt(II), nickel(II) and cadmium(II): Recognition of CH<sub>2</sub>Cl<sub>2</sub>**

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### **Abstract**

Reaction of the potassium salts of podand-containing bis(dithiophosphonate)s [PhO(4-C<sub>6</sub>H<sub>4</sub>)P(S)(SH)OCH<sub>2</sub>CH<sub>2</sub>]<sub>2</sub>O (H<sub>2</sub>L) with Co(II), Ni(II) and Cd(II) in aqueous EtOH leads to complexes of formulae M<sub>2</sub>(L-S,S')<sub>2</sub>. The structural formulae of the compounds were deduced by physico-chemical and spectroscopic methods. It was established that complex Ni<sub>2</sub>L<sub>2</sub> recognizes CH<sub>2</sub>Cl<sub>2</sub>. © 2008 Springer Science+Business Media B.V.

<http://dx.doi.org/10.1007/s11243-008-9133-4>

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