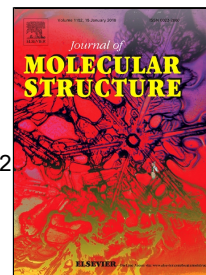


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The Synthesis and the Spectroscopic, Thermal, and Structural Properties of the  $M_2$  [(fumarate)Ni(CN) $_4$ ] $\cdot$ 2(1,4-Dioxane) Clathrate (M = Co, Ni, Cd and Hg)

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- In this study, we obtained new  $M_2[(\text{fumarate})\text{Ni}(\text{CN})_4]\cdot 2(1,4\text{-Dioxane})$  clathrates ( $M = \text{Co}, \text{Ni}, \text{Cd}$  and  $\text{Hg}$ ).
- Then we recorded FT-IR, FT-Raman, powder XRD spectra and thermal analysis of these clathrates.
- Moreover, the obtained data is discussed.

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