Synthesis and Crystal Structure Identification of 
$[\text{Cd(H}_2\text{O)}(\text{CrO}_4)_3(\text{en})_2]_n$

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**Abstract**: A new complex of cadmium was synthesized by the reaction of cadmium nitrate, potassium dichromate, and ethylenediamine. Its crystal structure was determined by X-ray diffractometry. It is Crystallized in a monoclinic system, with P21/n(14) point group and 4 molecules of the complex in the unit cell. The crystal parameters are:

- $a = 7.4615(7)\,\text{Å}$  
- $b = 7.1480(2)\,\text{Å}$  
- $c = 14.8485(10)\,\text{Å}$  
- $\beta = 92.096$  
- $V = 791.41(10)\,\text{Å}^3$

Because of the unusual bridge ligands of ethylenediamine and chromate, the complex has an interesting structure, which is 3-dimensional and polymeric.