

Supporting Information

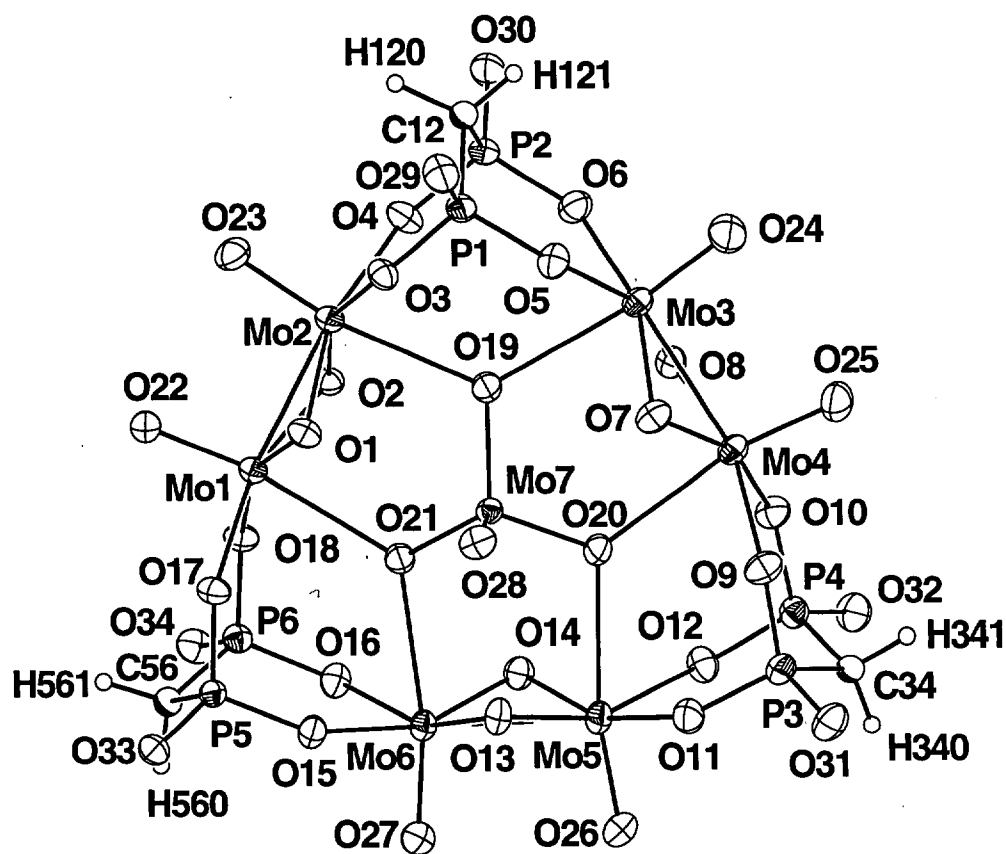


Figure S1. An ORTEP plot of the anion $[\text{Mo}^{\text{V}}_6\text{Mo}^{\text{VI}}\text{O}_{16}(\text{O}_3\text{PCH}_2\text{PO}_3)_3]^{8-}$ in compound **1** with all atoms labeled.

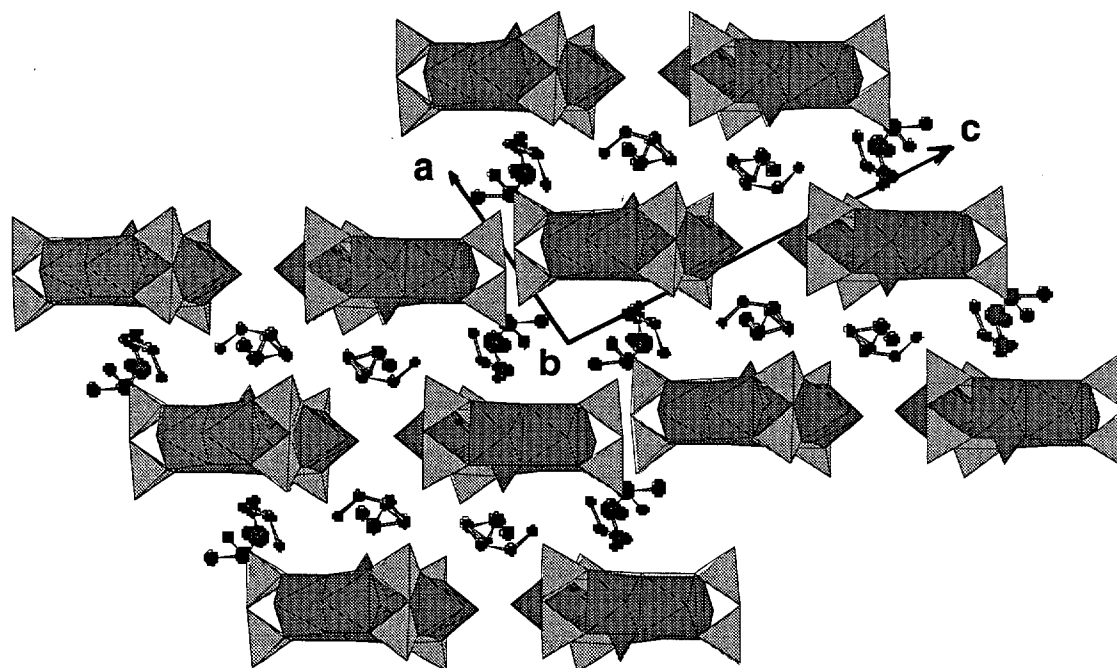


Figure S2. Projection along the b axis showing the alternation of inorganic anionic layers ($[\text{Mo}^{\text{V}}_6\text{Mo}^{\text{VI}}\text{O}_{16}(\text{O}_3\text{PCH}_2\text{PO}_3)_3]^{8-}$: polyhedral representation) and organic cationic layers (diamines : black circles). Water molecules are omitted for clarity.

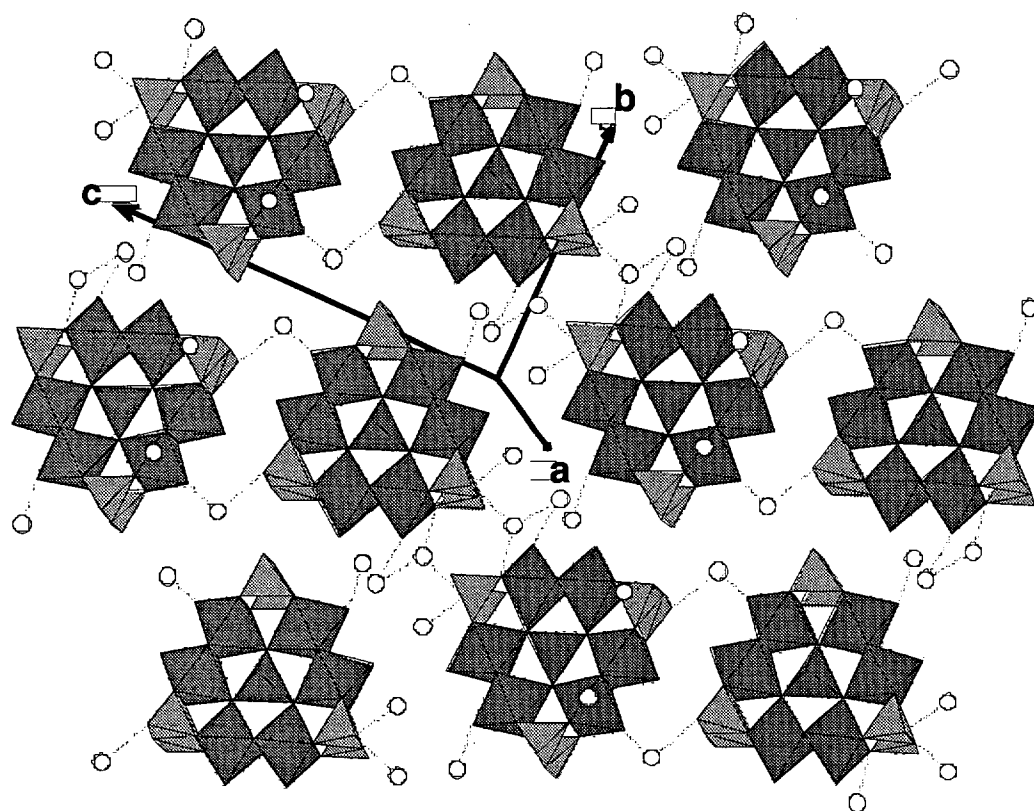


Figure S3. Projection showing an inorganic layer and hydrogen bonds (dotted lines) between $[\text{Mo}^{\text{V}}_6\text{Mo}^{\text{VI}}\text{O}_{16}(\text{O}_3\text{PCH}_2\text{PO}_3)_3]^{8-}$ anions (polyhedral representation) and water molecules (empty circles). Diamines are omitted for clarity.