

**A ZINC COORDINATION POLYMER ASSEMBLED
FROM bis(4-(1H-IMIDAZOL-1-YL)PHENYL)METHANONE
AND PHTHALIC ACID: SYNTHESIS, STRUCTURAL
CHARACTERIZATION, AND FLUORESCENT PROPERTIES**

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A zinc coordination polymer with the formula $[\text{Zn}(\text{pa})(\text{L}^1)(\text{H}_2\text{O})_2]_n$ (**I**) (L^1 = bis(4-(1*H*-imidazol-1-yl)phenyl)methanone, H_2pa = phthalic acid) is synthesized and structurally characterized. The single crystal X-ray diffraction analysis shows that Zn^2+ has a distorted octahedral geometry with two O atoms from two pa^{2-} ligands and two N atoms from two L^1 ligands. Each L^1 acts as a bridging ligand to link the neighboring zinc ions to form a looped chain. The thermal stability and fluorescent properties of the complex are investigated.

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