

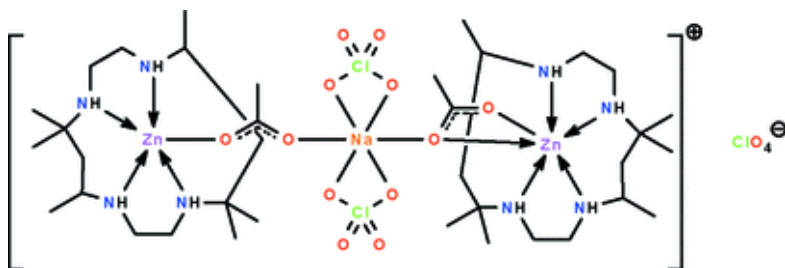
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metal-organic compounds

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Acta Cryst. (2011). E67, m1664 [doi:10.1107/S1600536811045363]

Di- μ -acetato-1:2²O:O';2:3³O:O,O'-bis(5,5,7,12,12,14-hexamethyl-1,4,8,11-tetraazacyclotetradecane)-1⁴N,3⁴N-bis(perchlorato-2²O,O')-2-sodium-1,3-dizinc perchlorate

G.-C. Ou and S. W. Ng

Abstract: In the title salt, $[\text{NaZn}_2(\text{CH}_3\text{COO})_2(\text{ClO}_4)_2(\text{C}_{16}\text{H}_{36}\text{N}_4)]\text{ClO}_4$, the macrocyclic ligand binds to the Zn^{2+} cations through their four amino N atoms; the Zn^{2+} cations are also each covalently bonded to an acetate ion. For one zinc atom, the acetate group is monodentate, and the geometry is a distorted ZnN_4O trigonal bipyramid; for the other, the acetate group is anisobidentate and the geometry is a distorted ZnN_4O_2 octahedron. The two macrocycle-zinc acetate units are bridged through a diperchloratosodium unit. In the crystal, the complex cations and uncoordinated perchlorate anions are linked by N-H...O hydrogen bonds.