



Syntheses and crystal structure of $[\text{Li}_4\text{Zn}(\mu_3, \eta^2\text{-ddbfo})_2(\mu, \eta^2\text{-ddbfo})_3\text{Cl}(\text{CH}_3\text{CN})_2] \cdot 2\text{CH}_3\text{CN}$, $[\text{Na}_4(\mu, \eta^2\text{-ddbfo})_4(\text{CH}_3\text{CN})_4]$ and $[\text{Zn}_2(\mu, \eta^1\text{-ddbfo})_2\text{Cl}_2(\text{py})_2]$ aggregates.

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The synthesis, characterization and the X-ray structure of the three title complexes containing the 2,3-dihydro-2,2-dimethyl-7-benzofuranoxide (ddbfo) ligand are reported. The structure of $[\text{Li}_4\text{Zn}(\mu_3, \eta^2\text{-ddbfo})_2(\mu, \eta^2\text{-ddbfo})_3\text{Cl}(\text{CH}_3\text{CN})_2]$ includes four lithium and one zinc tetrahedral metal centers linked by $\mu\text{-O}_{\text{aryloxide}}$ and $\mu_3\text{-O}_{\text{aryloxide}}$ bridges. The crystals of $[\text{Na}_4(\mu_3, \eta^2\text{-ddbfo})_4(\text{CH}_3\text{CN})_4]$ are composed of centrosymmetric cubic molecules. The crystal structure determination of compound $[\text{Zn}_2(\mu, \eta^1\text{-ddbfo})_2\text{Cl}_2(\text{py})_2]$ shows it to be a centrosymmetric dimer, in which two $\text{ZnCl}(\text{py})$ units are linked by $\mu\text{-O}_{\text{aryloxide}}$ oxygen atoms of $\eta^1\text{-ddbfo}$ ligands.

Adres publiczny

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<https://www.rsc.org/>