

Publication

4"-Chloro-2,2':6",2"-terpyridine (L): ethyl sulfate salts of $[H_2L]^{2+}$ and the single crystal structures of $[H_2L][EtOSO_3]Cl \cdot H_2O$ and $[ML_2][PF_6]_2$ with M = Fe and Ru

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Title 4"-Chloro-2,2':6",2"-terpyridine (L): ethyl sulfate salts of $[H_2L]^{2+}$ and the single crystal structures of $[H_2L][EtOSO_3]Cl \cdot H_2O$ and $[ML_2][PF_6]_2$ with M = Fe and Ru

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The preparation and characterization of $[H(2)1][ErOSO_3](2)$ and the crystal structure of $[H(2)1][EtOSO_3]Cl$ center dot H_2O are reported ($1 =$ 4'-chloro-2,2':6',2"-terpyridine): extensive hydrogen bonding dictates both the conformation of the tpy domain and the crystal packing. An efficient microwave oven synthesis of $[Ru(1)(2)][PF_6](2)$ is described; the method has general application for $[Ru(tpy)(2)](2+)$ derivatives. In the solid state, $[Ru(1)(2)][PF_6](2)$ and $[Fe(1)(2)][PF_6](2)$ are isostructural and crystallize in the tetragonal P42(1)c space group.

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