

Copper-imidazole-chloride/bromide Complexes

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Due to the presence of histidine in most of the copper proteins, imidazole and its derivatives have been widely used in synthesis of simple copper coordination compounds as mimics of proteins' active sites. In the course of our research on copper/imidazole compounds, we have prepared new complexes: a polymeric compound of stair geometry with the $[\text{CuIm}_2\text{Cl}_2]_n$ composition, $[\text{CuIm}_4\text{X}]\text{X}$ ($\text{X}=\text{Cl}, \text{Br}$) and two examples containing well known $\text{CuOBr}_6\text{Im}_4$ fragment. Their crystal structures will be presented and discussed in terms of the known structurally characterized examples.

Keywords: copper, imidazole, coordination polymer