

## Hirshfeld Atom Refinement of crystal structure and Hirshfeld surface analysis of five copper(II) fenamate complexes with *N,N*-diethylnicotinamide

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Copper (II) complexes with NSAIDs are interesting as potential drugs with different biological activity such as potential anticancer and antioxidant activities (superoxide dismutase mimicking, radical scavenging and soybean lipoxygenase inhibition).<sup>1-3</sup>

A series of five copper(II) fenamate complexes with *N,N*-diethylnicotinamide ligand (den) of formula [Cu(nif)<sub>2</sub>(den)<sub>2</sub>] (flu = flufenamate) (**1**), [Cu(clo)<sub>2</sub>(den)<sub>2</sub>] (clo = clonixinate) (**2**), [Cu(flu)<sub>2</sub>(den)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>] (flu = flufenamate) (**3**), [Cu(tol)<sub>2</sub>(den)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>] (tol = tolfenamate) (**4**) and [Cu(mef)<sub>2</sub>(den)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>] (mef = mefenamate) (**5**) have been synthesized and structural characterized. The crystal structures of five complexes (**1-5**) were refined using the Hirshfeld Atom Refinement model (HAR) and Hirshfeld surface analysis have been also made.

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