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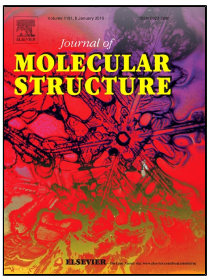

Synthesis, Structural Analysis, Hirshfeld Surface, Spectroscopic characterization and, *in vitro*, antioxidant activity of a novel organic cyclohexaphosphate

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Highlights

- New organic cyclohexaphosphate was synthesized and characterized.
- The X-ray crystal structure of this new hybrid compound was elucidated.
- Intermolecular interactions were analyzed by Hirshfeld surface analysis.
- Thermal stability of the studied compound was carried out by TG-DTA curves.
- Antioxidant activity of this phosphate was examined as a function of the concentration showing significant results especially as scavenger of free radicals (DPPH and OH).