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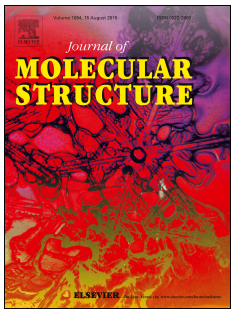

Synthesis, characterization and temperature-triggered phase transition of organic-inorganic hybrid compound: $(C_6H_{18}N_2)(HSO_4)_2$

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Graphical abstract

Compound $(C_6H_{18}N_2)(HSO_4)_2$ undergoes a reversible second-order phase transition at 247.7 K with a round peak-like dielectric anomaly. The phase transition of $(C_6H_{18}N_2)(HSO_4)_2$ could be driven by the coupling of disorder-order transition of HSO_4^- anions and reorientation motion of the flexible branched chain-like $(C_6H_{18}N_2)_2^+$ cations.