

$[\text{Ga}_{10}\text{S}_{16}(\text{NC}_7\text{H}_9)_4]^{2-}$: a hybrid supertetrahedral nanocluster

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Thermogravimetric analysis was performed using a DuPont Instruments 951 thermal analyser. Approximately 10 mg of finely ground crystals were heated under a flow of dry nitrogen over the temperature range 25-700°C at a heating rate of 5°C min⁻¹. Powder X-ray diffraction data on a ground portion of the bulk samples were collected with nickel-filtered Cu-K α radiation ($\lambda=1.5418$ Å), using a Philips PA2000 powder diffractometer.

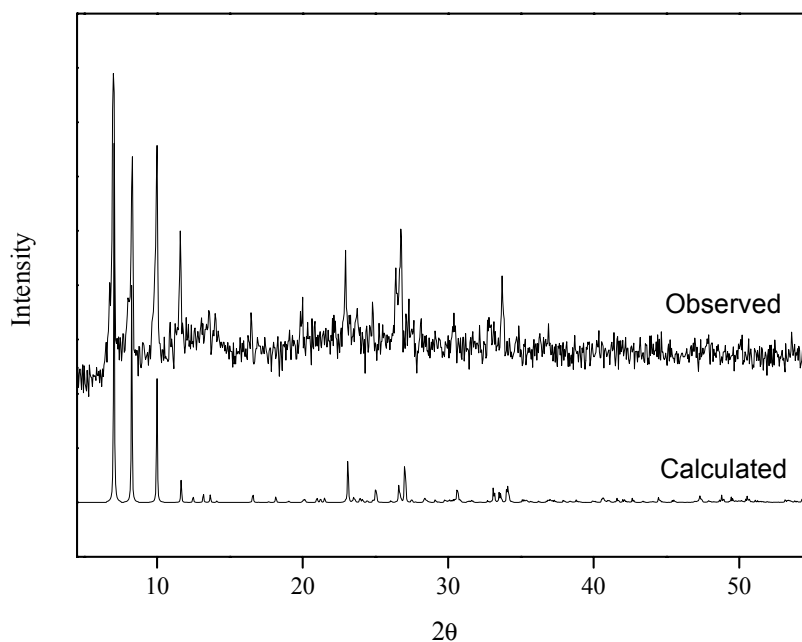


Figure 1S. Observed powder X-ray diffraction patterns for the bulk product of the reaction producing $[\text{C}_7\text{H}_{10}\text{N}]_2[\text{Ga}_{10}\text{S}_{16}(\text{NC}_7\text{H}_9)_4]$. The calculated powder diffraction pattern has been included for comparison purposes.

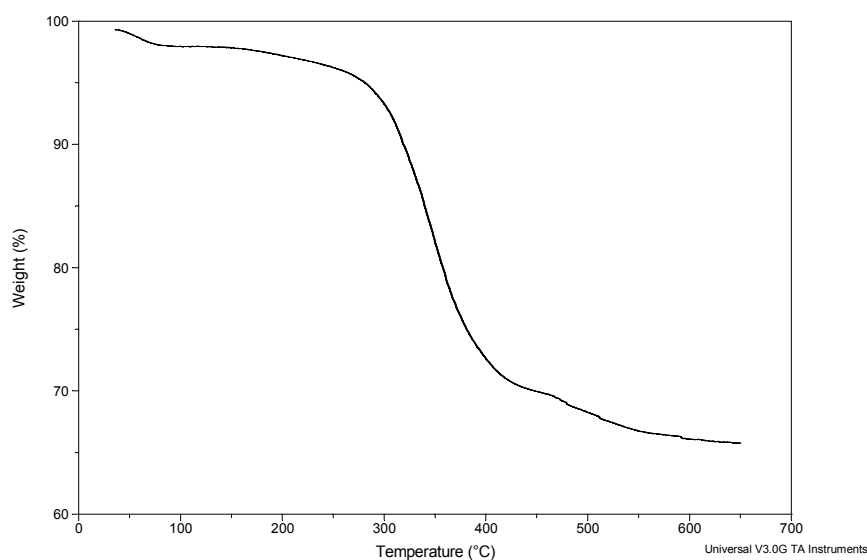


Figure S2. TGA data for $[\text{C}_7\text{H}_{10}\text{N}]_2[\text{Ga}_{10}\text{S}_{16}(\text{NC}_7\text{H}_9)_4]$.