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Synthesis, Structure, and the Unusual Magnetic Properties of an Amine-Templated Iron(II) Sulfate Possessing the Kagome Lattice. — $[H_3N(CH_2)_6NH_3][Fe_{1.5}F_3(SO_4)]\cdot 0.5H_2O$ is solvothermally synthesized from a mixture of iron(III) citrate, 1,6-hexamethylenediamine, H_2SO_4, and HF in $BuOH/H_2O$ (acid digestion bomb, 150 °C, 2 d, 80% yield) and characterized by single crystal XRD, Moessbauer spectroscopy, and magnetic measurements. The compound crystallizes in the space group C2/m with Z = 8. The structure contains a network of Fe(II) cations forming a Kagome lattice. The compound undergoes ferrimagnetic ordering below 19 K and does not exhibit spin-glass freezing, which is rather unusual for a Kogome compound. — (RAO*, C. N. R.; SAMPATHKUMARAN, E. V.; NAGARAJAN, R.; PAUL, G.; BEHERA, J. N.; CHOUDHURY, A.; Chem. Mater. 16 (2004) 8, 1441-1446; Chem. Phys. Mater. Unit, Jawaharlal Nehru Cent. Adv. Sci. Res., Bangalore 560 064, India; Eng.) — W. Pewestorf