

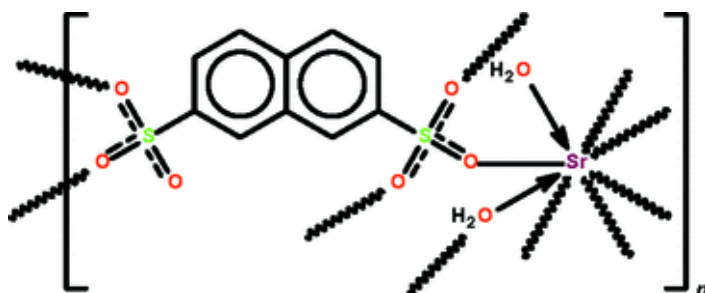
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metal-organic compounds

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Poly[μ_2 -aqua-aqua- μ_5 -naphthalene-2,7-disulfonato-strontium]

S. Gao and S. W. Ng

Abstract: In the crystal structure of the polymeric title compound, $[\text{Sr}(\text{C}_{10}\text{H}_6\text{O}_6\text{S}_2)(\text{H}_2\text{O})_2]_n$, the naphthalene-2,7-disulfonate dianion uses one $-\text{SO}_3^-$ unit to bind to two Sr^{II} cations and the other $-\text{SO}_3^-$ unit to bind to three Sr^{II} cations; of the two coordinated water molecules, one is monodentate to one Sr^{II} cation, whereas the other bridges two Sr^{II} cations. The μ_5 -bridging mode of the dianion and the μ_2 -bridging mode of the water molecule generate a polymeric three-dimensional network which is consolidated by O-H...O hydrogen bonds. The Sr^{II} cation exists in an undefined eight-coordinate environment.