

Aqua(ethylenedisulfonato)europium(II) [Eu(O₃SC₂H₄SO₃)(H₂O)] - structure, spectroscopy and magnetic properties.

Autorzy

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Czasopismo

Polyhedron

Numer woluminu

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Streszczenie

Aqua(ethylenedisulfonato)europium(II) was obtained by electrochemical reduction. The compound is polymeric and each metal cation is surrounded by six oxygen atoms from sulfonate groups and by two water molecules. The compound shows faint emission with maximum at 414.5 nm at room temperature and bright luminescence ($\lambda_{\max} = 408$ nm) at 77 K. Magnetic susceptibility measurements show that interactions between Eu²⁺ cations are very weak; the shortest Eu–Eu distances are in the range 5.0–5.7 Å.

Słowa kluczowe

Divalent europium, Ethylenedisulfonate, crystal structure, spectroscopy, DFT calculations, Magnetic susceptibility

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