



>>Entry Name: **Samarium(III) oxalate**

**Synonym(s):** Tris(oxalato)disamarium(III). Tris(ethanedioato)disamarium(III)

**CAS Registry Number:** 3252-68-4

**Related CAS Registry Numbers(s):** 10171-50-3

$\text{Sm}_2(\text{C}_2\text{O}_4)_3$

**Molecular Formula:**  $\text{C}_6\text{O}_{12}\text{Sm}_2$

**Molecular Weight:** 564.779

**Accurate Mass:** 567.778438

**Percentage Composition:** C 12.76%; O 33.99%; Sm 53.25%

>>Derivative: Decahydrate

**CAS Registry Number:** 14175-03-2

**Molecular Formula:**  $\text{C}_6\text{H}_{20}\text{O}_{22}\text{Sm}_2$

**Molecular Weight:** 744.931

**Accurate Mass:** 747.884088

**Percentage Composition:** C 9.67%; H 2.71%; O 47.25%; Sm 40.37%

**Physical Description:** Bright yellow cryst.

**References:**

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Weigel, F. *et al.*, *Acta Cryst.*, 1967, **22**, 923, (*struct*)  
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Thomas, Y. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1978, **286**, 119, (*ir, Raman*)  
Sharov, V.A. *et al.*, *Koord. Khim.*, 1979, **5**, 653; *Sov. J. Coord. Chem. (Engl. Transl.)*, 1979, **5**, 512, (*magnetism*)  
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