



>>Entry Name: Praseodymium(III) oxalate

Synonym(s): Tris(oxalato)dipraseodymium(III). Tris(ethanedioato)dipraseodymium(III)

CAS Registry Number: 3269-10-1

Related CAS Registry Numbers(s): 57417-70-6 57417-70-6 70063-10-4

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

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

Molecular Weight: 545.874

Accurate Mass: 545.754074

Percentage Composition: C 13.20%; O 35.17%; Pr 51.63%

>>Derivative: Decahydrate

CAS Registry Number: 24992-60-7

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

Molecular Weight: 726.026

Accurate Mass: 725.859724

Percentage Composition: C 9.93%; H 2.78%; O 48.48%; Pr 38.82%

Physical Description: Green cryst.

Other Data: 9-Coordination presumed, by analogy with Nd analogue. $\mu_{\text{eff}} = 3.45\mu_{\text{B}}$ (293K)

References:

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Grzymalski, Z. *et al.*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1965, **13**, 475, (*ir*)

Möbius, R. *et al.*, *J. Inorg. Nucl. Chem.*, 1966, **28**, 1601, (*dta*)

Ollendorff, W. *et al.*, *Inorg. Nucl. Chem. Lett.*, 1969, **5**, 263, (*struct*)

Fuller, M.J. *et al.*, *J. Less-Common Met.*, 1980, **70**, 127, (*tga, dta*)

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Morris, D.E. *et al.*, *J. Raman Spectrosc.*, 1988, **19**, 231, (*ir, Raman*)