



>>Entry Name: Praseodymium(III) trifluoromethanesulfonate

Synonym(s): Praseodymium triflate

CAS Registry Number: 52093-27-3

Related CAS Registry Numbers(s): 34629-22-6 85920-51-0

$\text{Pr}(\text{OSO}_2\text{CF}_3)_3$

Molecular Formula: $\text{C}_3\text{F}_9\text{O}_9\text{PrS}_3$

Molecular Weight: 588.119

Accurate Mass: 587.763619

Percentage Composition: C 6.13%; F 29.07%; O 24.48%; Pr 23.96%; S 16.36%

Use/Importance: Used in template synth.

Other Data: Forms adducts with various O-donor ligands. On pyrolysis affords PrF_3

Aldrich: 42570-2

>>Derivative: Nonahydrate

CAS Registry Number: 67878-31-3

Physical Description: Green cryst.

Solubility: Sol. H_2O , EtOH, MeCN

Other Data: Contains $[\text{Pr}(\text{OH}_2)_9]^{3(+)}$ ions

References:

U.S. Pat., 1971, 3 615 169; *CA*, 1972, **76**, 5436, (*synth, use*)

U.S. Pat., 1974, 3 796 736; *CA*, 1974, **81**, 13114, (*synth, complexes*)

Roberts, J.E. *et al.*, *Thermochim. Acta*, 1978, **25**, 233, (*synth, tga*)

Seminova, A. *et al.*, *Inorg. Chim. Acta*, 1980, **40**, 249, (*synth*)

Vincentini, G. *et al.*, *J. Less-Common Met.*, 1983, **94**, 285, (*synth, complexes*)

Chatterjee, A. *et al.*, *Acta Cryst. B*, 1988, **44**, 381, (*cryst struct*)

Smith, P.H. *et al.*, *Inorg. Chem.*, 1988, **27**, 4154, (*use*)

Sen, H., *J. Phys. C: Solid State Phys.*, 1988, **21**, 4497, (*magnetism*)