



>>Entry Name: Tris(2-methoxyethanolato-*O,O'*)yttrium(*III*), 12Cl

Synonym(s): Yttrium 2-methoxyethoxide

CAS Registry Number: 115668-57-0

Extra CAS Registry Numbers(s): 2172-12-5

$\text{Y}(\text{OCH}_2\text{CH}_2\text{OMe})_3$

Molecular Formula: $\text{C}_9\text{H}_{21}\text{O}_6\text{Y}$

Molecular Weight: 314.167

Accurate Mass: 314.039664

Percentage Composition: C 34.41%; H 6.74%; O 30.56%; Y 28.30%

Other: Gelest: AKY927

>>Derivative: Decamer

Synonym(s): Eicosakis[μ -(2-methoxyethanolato- $O^1:O^1,O^2$)]decakis(2-methoxyethanolato- O^1)decayttrium, 12Cl

CAS Registry Number: 126939-63-7

Molecular Formula: $\text{C}_{90}\text{H}_{210}\text{O}_{60}\text{Y}_{10}$

Molecular Weight: 3141.672

Accurate Mass: 3140.39664

Percentage Composition: C 34.41%; H 6.74%; O 30.56%; Y 28.30%

Use/Importance: Used in synth. of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Catalyst for polym. of caprolactone

Physical Description: Air-sensitive cryst.

Solubility: V. sol. many org. solvs.

Other Data: 7-Coord.

References:

Ravindranathan, P. *et al.*, *J. Mater. Sci.*, 1988, **3**, 810, (*synth*)

Poncelet, O. *et al.*, *Chem. Comm.*, 1989, 1847, (*synth, ir, cryst struct*)

Moore, G. *et al.*, *Mater. Lett.*, 1989, **7**, 415, (*use*)

Poncelet, O. *et al.*, *Inorg. Chem.*, 1990, **29**, 2883, (*reactions*)