



>>Entry Name: Ethoxydiethylaluminium, 9Cl

Synonym(s): Diethylaluminium ethoxide

CAS Registry Number: 1586-92-1

As Ethoxydimethylaluminium, FRT21-N with
 $R^1 = R^2 = \text{Et}$

Molecular Formula: $\text{C}_6\text{H}_{15}\text{AlO}$

Molecular Weight: 130.165

Accurate Mass: 130.093829

Percentage Composition: C 55.36%; H 11.61%; Al 20.73%; O 12.29%

General Statement: Dimeric

Use/Importance: Commercially available

Aldrich: 25674-9

>>Derivative: Dimer

Synonym(s): Di- μ -ethoxytetraethylaluminium, 9Cl

CAS Registry Number: 15629-79-5

Molecular Formula: $\text{C}_{12}\text{H}_{30}\text{Al}_2\text{O}_2$

Molecular Weight: 260.331

Accurate Mass: 260.187658

Percentage Composition: C 55.36%; H 11.61%; Al 20.73%; O 12.29%

Source/Synthesis: Synth. from Et_3Al and EtOH or Et_3Al and $\text{Al}(\text{OEt})_3$

Physical Description: Colourless liq.

Melting Point: Mp 2.5-4.5°

Boiling Point: Bp₁₀ 108-109°. Bp_{1.5} 45°

Solubility: Sol. hydrocarbons, Et_2O

References:

Tarao, R., *Bull. Chem. Soc. Jpn.*, 1966, **39**, 725, (*ir, Raman*)

Hirabayashi, T. *et al.*, *J. Organomet. Chem.*, 1972, **35**, 19, (*synth*)

Dewar, M.J.S. *et al.*, *J.C.S. Dalton*, 1973, 2381, (*nqr*)

Hyaland, A. *et al.*, *J. Organomet. Chem.*, 1975, **94**, 345, (*struct*)

Bochkarev, V.N. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1980, **50**, 1253, (*ms*)

Benn, R. *et al.*, *J. Organomet. Chem.*, 1987, **333**, 155, (*Al-27 nmr*)

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