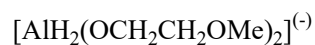




>>Entry Name: Dihydrobis(2-methoxyethanolato-*O,O'*)aluminate(1-)



Molecular Formula: C₆H₁₆AlO₄⁽⁻⁾

Molecular Weight: 179.171

Accurate Mass: 179.086399

Percentage Composition: C 40.22%; H 9.00%; Al 15.06%; O 35.72%

>>Derivative: Na salt

Synonym(s): Sodium dihydrobis(2-methoxyethanolato-*O,O'*)aluminate(1-). Sodium bis(2-methoxyethoxy)aluminium hydride. Sodium aluminium hydride bis(methoxyethoxide). Synhydride. Vitride. RED-Al. SDMA

CAS Registry Number: 22722-98-1

Extra CAS Registry Numbers(s): 21608-56-0

Molecular Formula: C₆H₁₆AlNaO₄

Molecular Weight: 202.161

Accurate Mass: 202.076166

Percentage Composition: C 35.65%; H 7.98%; Al 13.35%; Na 11.37%; O 31.66%

Use/Importance: Widely used as reducing agent in org. chem., commercially available

Physical Description: Viscous moisture sensitive liq. Used as 70% soln. in toluene

Solubility: Sol. hydrocarbons, ethers

Other Data: $\Delta H_f -1316 \text{ kJ mol}^{-1}$. Oligomeric struct. proposed in soln.

Hazard & Toxicity: Fl. p. 4°

Aldrich: 19619-3

Fluka: 71495

Sigma: S1260

Other: Gelest AKS726

References:

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Heřmánek, S. *et al.*, *Z. Naturforsch., B*, 1985, **40**, 582, (Al-27 nmr)

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