Synthesis of homoleptic barium alkoxides and aryloxides and their reactions with Al. $(CH_3)_3$: a convenient route to heterometallic species.

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Reactions of metallic Ba with benzofuranol (dbbfoH) or diethylene glycol give homoleptic and homonuclear complexes $Ba(dbbfo)_2(dbbfoH)_2 \cdot 3dbbfoH$ and $Ba\{O(CH_2CH_2O)_2\}\{O(CH_2CH_2OH)_2\}_2$ (60−89%). Both compounds and formerly described $Ba\{O(CH_2CH_2O)_2Me\}_2$ react with $Al(CH_3)_3$ to yield trinuclear heterobimetallic low-coordinated barium compounds with structure and geometry depending on the reaction stoichiometry and crystallization procedure.

Słowa kluczowe

Alcohols, Metals, Ligands, Crystal structure, Barium

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