Neuartige Synthese und Molekülstruktur von Benzylkalium $(thf)[KCH_2C_6H_5]_2$

Novel Synthesis and Molecular Structure of Benzyl Potassium $(thf)[KCH_2C_6H_5]_2$

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Z. Naturforsch. **53b,** 625–627 (1998);
eingegangen am 24. Februar 1998

Potassium, Benzyl Potassium, X-Ray Data

The reaction of potassium with hexamethyldistannane in a refluxing solvent mixture of toluene and tetrahydrofuran (ratio 10:1) yields the red tetrahydrofuran adduct of benzyl potassium $(thf)[KCH_2C_6H_5]_2$ due to the metalation of toluene by the potassium trimethylstannanide intermediate. The solid state structure of $(thf)[KCH_2C_6H_5]_2$ contains dimers with only one potassium coordinated to a tetrahydrofuran molecule. These dimers form a polymer through benzyl bridging with shortest K-C distances at 292 pm.

Sonderdruckanforderungen an Dr. M. W.; e-mail: maw@anorg.chemie.uni-muenchen.de