

Synthese und Röntgenstrukturanalyse der ersten *tert*-Butylcalix[4]arensalze mit einem Phosponium-Kation

Synthesis and X-Ray Structure Analysis of the First *tert*-Butylcalix[4]arene Salts with a Phosponium Cation

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tert-Butylcalix[4]arene Anions, *tert*-Butylcalix[4]arenes (Phosphorus-Substituted), Phosponium Salts (Tetramethylguanidine-Substituted), X-Ray Data

The reactions of *tert*-butylcalix[4]arene (**1**) and the phosphorus-substituted *tert*-butylcalix[4]arene (**2**), respectively, with *tert*-butylbis[N-(N',N',N'',N''-tetramethyl)guanidiny]phosphine (**3**) led to the first calix[4]arene-anions with the protonated phosponium cations **4** and **5**. No protonation of the imino nitrogen atom was observed. In the case of compound **4**, a single-crystal X-ray structure analysis has been conducted. In compound **5**, phosphorus atoms in the oxidation states +III and +V are present in one molecule.