

# A Simple and Convenient Route to Arylxenon(II) Tetrafluoroborates

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Z. Naturforsch. **54 b**, 1495–1498 (1999); received October 4, 1999

Xenon Difluoride, Fluorinated Aryldifluoroboranes, Fluorinated Arylxenon(II) Salts, Fluorine-Aryl Substitution, Thermal Decomposition

An improved synthesis of arylxenon(II) salts is reported. The series of fluoro-containing arylxenon(II) tetrafluoroborates (aryl = C<sub>6</sub>F<sub>5</sub>, 2,3,4,5-C<sub>6</sub>HF<sub>4</sub>, 3,4,5-C<sub>6</sub>H<sub>2</sub>F<sub>3</sub> and 3,5-C<sub>6</sub>H<sub>3</sub>F<sub>2</sub>) are prepared by the reaction of xenon difluoride with the corresponding aryldifluoroboranes. The salts [C<sub>6</sub>F<sub>5</sub>Xe] [BF<sub>4</sub>] and [2,3,4,5-C<sub>6</sub>HF<sub>4</sub>Xe] [BF<sub>4</sub>] are long-term stable in anhydrous HF (aHF) solution at rt, while [3,4,5-C<sub>6</sub>H<sub>2</sub>F<sub>3</sub>Xe] [BF<sub>4</sub>] and [3,5-C<sub>6</sub>H<sub>3</sub>F<sub>2</sub>Xe] [BF<sub>4</sub>] are converted into 1,2,3,5-tetrafluorobenzene and 1,3,5-trifluorobenzene, respectively, within a few hours.