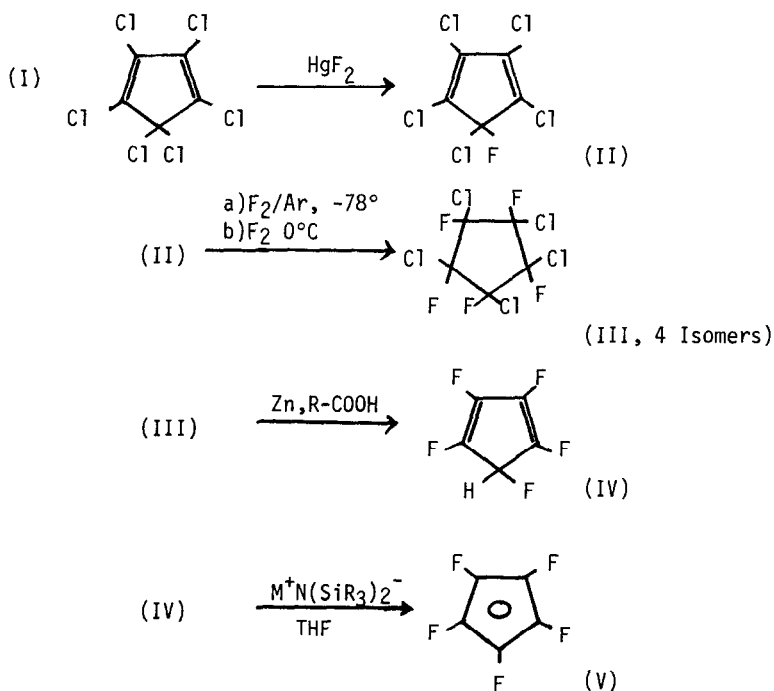


THE PERFLUOROCYCLOPENTADIENYL ANION $C_5F_5^-$

Gerhard Paprott* and Konrad Seppelt

Institut für Anorg. und Analyt. Chemie, Freie Universität Berlin, Fabeckstrasse 34–36,
1000 Berlin 33 (F.R.G.)

The title ion $C_5F_5^-$ was obtained in four steps. The reaction goes along the following steps.



The perfluorocyclopentadienyl anion is not very stable. The lithium salt decomposes within minutes at $-110^\circ C$, the sodium salt within hours at $-78^\circ C$, and the thallium and caesium salt at $-30^\circ C$. The $Na^+[18-crown-6] C_5F_5^-$ in THF is the most stable so far. The first reactions of V will be presented.