

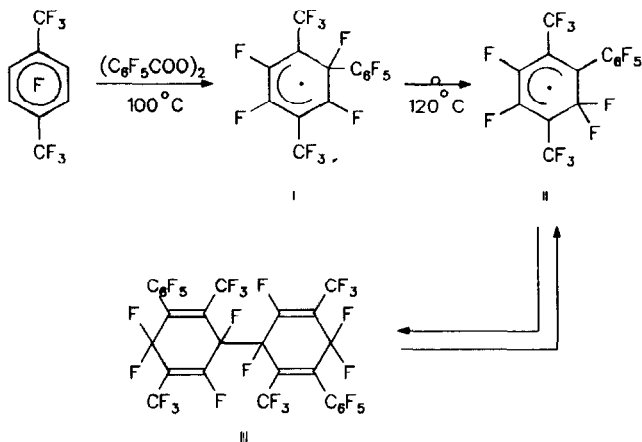
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EPR study of fluorine 1,2-migration in polyfluorinated cyclohexadienyl radicals

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The EPR spectra of polyfluorinated cyclohexadienyl radicals with fluorine atom and pentafluorobenzoyloxy or pentafluorophenyl groups in the geminal position were recorded. Fluorine 1,2-migration in the cyclohexadienyl radicals has been observed for the first time, using the EPR technique. As an example, σ -complexes corresponding to pentafluorophenyl radical addition to perfluoro-para-xylene (**I**) isomerize by fluorine 1,2-shift under high temperature with formation of a new cyclohexadienyl radical which contains two fluorine atoms in the geminal position (**II**).



The EPR spectra of radical (**II**) were also recorded by heating a solution of the dimer (**III**).