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SYNTHESIS OF FLUORINATED POLYPHENYL ETHERS BY THE REACTIONS OF PENTAFLUOROPHENOXYL RADICAL DIMER

V. N. Kovtonyuk and L. S. Kobrina

Institute of Organic Chemistry, Siberian Division of the Academy of Sciences, Novosibirsk 630090 (U.S.S.R.)

Availability, high reactivity and easy aromatisation of polyfluorinated cyclohexadienones make them convenient synthons for the selective introduction of various functional groups to fluorinated aromatic compounds, leading to products which are difficult to obtain by other methods. Thus an approach to the synthesis of various fluorinated phenols and polyphenyl ethers has been worked out, which involves oxidation of pentafluorophenol to perfluoro-4-phenoxy-2,5-cyclohexadien-1-one, nucleophilic substitution of fluorine atoms in the latter, and subsequent reduction of the products.

