

Title (en)
FUNCTIONALIZATION OF IODO-POLYFLUOROALCANES BY ELECTROCHEMICAL REDUCTION, AND FLUORINATED COMPOUNDS SO OBTAINED

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Application
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Abstract (en)
[origin: ES2005153A6] The invention relates to the preparation of functionalized derivatives from iodopolyfluoroalkanes by electrochemical reduction. This reduction is carried out in a formamide or substituted formamide solvent which may contain up to 70% (by volume) water, on a carbon cathode for certain embodiments sulfur dioxide may also be present. This method of preparing perfluoroalkanecarboxylic acids R₁COOH or perfluoroalkanesulphinic acids, R₁SO₂H and alcohols of the R₁CF₂H₂OH type, also makes it possible to prepare new fluorinated compounds of formulae: I-(CF₂)_p-1-COOH and HO₂S-(CF₂)_p-1-COOH, in which p is an even-numbered integer which may range from 4 to 12.

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