

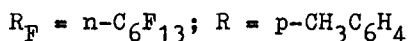
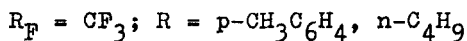
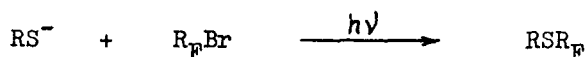
PERFLUOROALKYLATION OF THIOLS BY PERFLUOROALKYLBROMIDES

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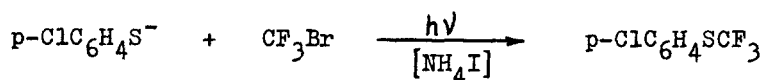
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It was found, that less reactive but more available perfluoroalkylbromides can be used instead of perfluoroalkyl-iodides in the reaction of ion-radical perfluoroalkylation of thiols.

Ultra-violet irradiation of the mixture of thiolates and perfluoroalkylbromides in liquid ammonia or in the dimethylformamide solution gives perfluoroalkylsulphides in high yield.



p-Chlorothiophenol reacts with trifluorobromomethane in the dimethylformamide solution in ammonium iodide presence and in this case p-chlorophenyltrifluoromethylsulphide is formed in 77% yield.



In the absence of ammonium iodide the yield of p-chlorophenyltrifluoromethylsulphide is only 4%.