Modern medicinal chemistry and agrochemistry are tightly bound to organofluorine chemistry, because around 20% of all pharmaceuticals and up to 30% of agrochemicals are organic compounds that contain at least one fluorine atom. Trifluoromethyl group, in particular, is a part of the structure of more than seventy approved drugs. Carboxylic acids are amongst the most available chemical compound classes, and it would have been desirable to have a practical method to converting them into the trifluoromethyl-substituted derivatives. Herein we report on a mild fluorination of aliphatic and aromatic carboxylic acids with sulfur tetrafluoride.

Introduction and Aim

Deoxofluorination of Aliphatic and (Hetero)aromatic Acids


Results

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References