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Reductive addition of polychloroalkanes to fluoroketones

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The nucleophilic trichloromethylation of fluoroketones has been performed by reductive addition of CCl_4 under the action of amalgam:



 $R = CF_3$ (81%), Me (58%), Ph (83%)

Trichloroalkanes (II) were involved in a similar reaction with hexafluoroacetone; however perfluoropinacol was a main product in the case of CCl_3Me :



The trichloromethylcarbinols (I) were used in the synthesis of perfluorinated tertiary alcohols and trifluoromethylsubstituted 1,1-dichlorooxiranes.

