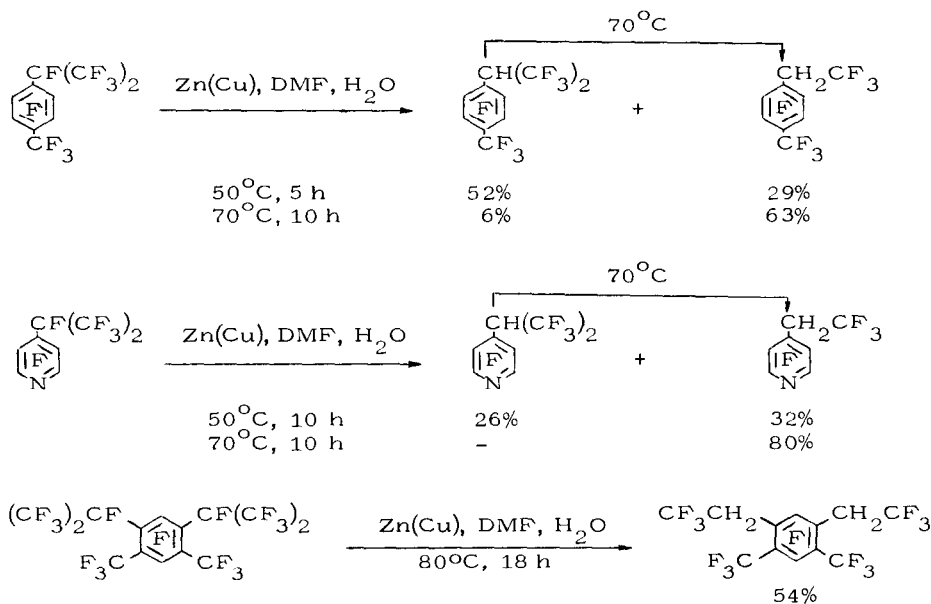


HYDROGENOLYSIS OF POLYFLUOROISOPROPYLAROMATIC COMPOUNDS

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It has been found that in the presence of Zn(Cu) in aqueous DMF (20-70°C), the $(\text{CF}_3)_2\text{CF}-$ substituent in polyfluoroaromatic compounds is converted to $(\text{CF}_3)_2\text{CH}-$ and CF_3CH_2- , while the $(\text{CF}_3)_2\text{CH}-$ substituent, to the CF_3CH_2- group e.g. as illustrated below:



Mechanism of reactions involving radical anions of polyfluoroaromatic compounds is discussed.