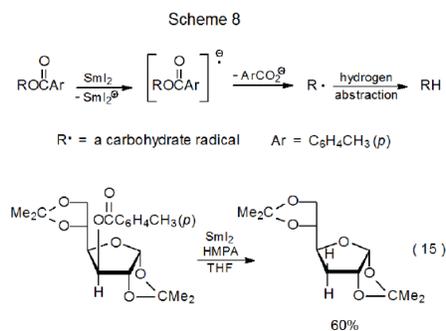


IV. Nonphotochemical Electron Transfer to Carboxylic Acid Esters

Electron transfer to carboxylic acid esters also can occur via nonphotochemical reaction. Transfer of an electron from SmI_2 to a carbohydrate *p*-methylbenzoate produces a radical anion that fragments to give a carbon-centered, carbohydrate radical and a *p*-methylbenzoate anion (Scheme 8).^{54,55} The carbohydrate radical abstracts a hydrogen atom from a donor present in the solution to form a deoxy sugar. An example of such a reaction is shown in eq 15.



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