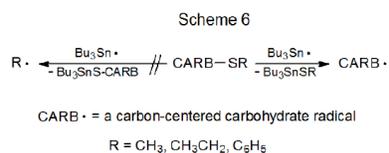


III. Alkylthio and Arylthio Substituted Carbohydrates and Related Compounds

The identity of the carbon–sulfur single bond broken during reaction of a carbohydrate that has two such bonds depends upon the stability of the carbon-centered radical being formed. If the sulfur atom is part of a methylthio,^{8–11} ethylthio,^{12–15} or arylthio^{15–24} group, radical stability favors producing a carbohydrate radical rather than a methyl, ethyl, phenyl, or *p*-tolyl radical (Scheme 6).



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