Abstracts

A) The deoxygenation of methyl furanoside 2 to its corresponding olefinic product 3 has been the target of extensive synthetic efforts. The mildness of this deoxygenation procedure is attested by the fact that even the acidic impurities in CDCl₃ are sufficient for conversion to the fully aromatic product.³

B) The stereoselective total synthesis of (+/-)-methylenolactocin 4 used Nugent's reagent in the key intramolecular epoxyheptyne radical cyclisation step.⁴

C) The intramolecular addition of epoxides to activated olefins utilizes Nugent's reagent to effect homolysis of the epoxide C-O bond. The δ-hydroxy ester formed on work-up cyclises to the spirilactone 5.⁵ (Interestingly, under the reaction conditions no further addition or polymerisation of methyl methacrylate occurred)

References