

Decomposition of Ethoxyethynyl(trimethyl)tin – Studied by ^{119}Sn and ^{13}C NMR Spectroscopy

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The thermally induced decomposition of ethoxyethynyl(trimethyl)tin (**1**) was studied by ^{119}Sn NMR which revealed the formation of bis(trimethylstannyl) ketene (**2**) as the major product, bis(trimethylstannyl) acetic acid ethyl ester (**3**) as a minor product, and a small amount of tetramethyltin (**4**). Full NMR data sets, including coupling constants and isotope induced chemical shifts $^1\Delta^{12/13}\text{C}(^{119}\text{Sn})$ are provided for **1** - **3**. The first example of ultra-high resolution ^{119}Sn NMR is shown.