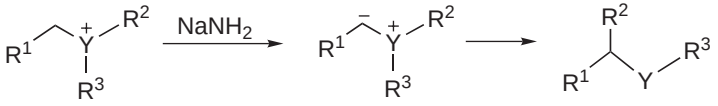
380. Stevens Rearrangement

T. S. Stevens *et al., J. Chem. Soc.* **1928,** 3193; **1930,** 2107, 2119; **1932,** 55, 1926, 1932.

Migration of an alkyl group from a sulfonium or quaternary ammonium salt to an adjacent carbanionic center on treatment with strong base. The product is a rearranged tertiary amine or sulfide:



Y = NR or S

Early reviews: H. E. Zimmerman in *Molecular Rearrangements* Part 1, P. de Mayo, Ed. (Wiley-Interscience, New York, 1963) pp 345-406; D. J. Cram, *Fundamentals of Carbanion Chemistry* (Academic Press, New York, 1965) pp 223-229; S. M. Pine, *Org. React.* **18,** 403-464 (1970). Selectivity studies vs Sommelet-Hauser rearrangement, *q.v.*: T. Kitano *et al., J. Chem. Soc. Perkin Trans. 1* **1992,** 2851; T. Tanaka *et al., J. Org. Chem.* **57,** 5034 (1992). *Review:* I. E. Markó, *Comp. Org. Syn.* **3,** 913-932 (1991). Comprehensive review and applications in natural product synthesis: J. A. Vanecko *et al., Tetrahedron* **62**, 1043-1062 (2006). *Cf.* Meisenheimer Rearrangements; [1,2]-Wittig Rearrangement.