# “The Mechanisn of the Reaction om Molecular Bromine with Organosilicon Hydrides”

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The kinetics of the bromination of 7 triarylsilanes and 14 other organosilicon hydrides by molecular bromine in CCl4 have been determined by stopped flow method. For triethylsilane, Arrhenius parameters have been measured in octane and CCl4, and solvent effects determined in other solvents of different polarity. The results accord with a molecular mechanism involving one molecule of bromine and one of the organosilicon hydride, with partial positive charge build-up on silicon in the transition state.