

"Surface-Mediated Reactions. 5. Oxidation of Sulfides, Sulfoxides, and Alkenes with tert-Butyl Hydroperoxide." Breton, G. W.; Fields, J. D.; Kropp, P. J. *Tetrahedron Letters* 1995, 36(22), 3825.

Abstract: Silica gel mediates the reactivity of $(\text{CH}_3)_3\text{COOH}$, affording a convenient, environmentally benign method for oxidizing sulfides, sulfoxides, and alkenes. Electrophilic oxidation of sulfides and alkenes (Scheme 1A) and nucleophilic oxidation of sulfoxides (Scheme 1B) are apparently involved. Basic alumina mediates the oxidation of sulfoxides.