

Competitive electrochemical thio- and selenenylation of chlorosilanes

Jouikov V., Grigorieva L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The anions PhS⁻ and PhSe⁻ obtained from cathodic reduction of diorganodichalcogenides, substitute Cl in trimethylchlorosilane with relative rates $k_{\text{Se}}/k_{\text{S}} = 9.3$ to give trimethylsilylphenylsulfide and trimethylsilylphenylselenide; this reaction, carried out in the presence of a carbonyl compound, results in trimethylsilyl ethers of hemithio-(seleno-)ketals and acetals. Copyright © 1996 Elsevier Science Ltd.

[http://dx.doi.org/10.1016/0013-4686\(96\)00015-1](http://dx.doi.org/10.1016/0013-4686(96)00015-1)

Keywords

Electrochemical reactivity, Selenosilanes, chlorosilanes, Thiosilanes