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Bis (1-cyclohexene-3-on-1-oxy)silanes, Silyl-enoles of β -Ketones

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5,5-Dimethylcyclohexane-1,3-dione (dimedone) and cyclohexane-1,3-dione react with $\text{Cl}_2\text{Si}(\text{CMe}_3)_2$ in the presence of triethylamine to give the bis(1-cyclohexene-3-on-1-oxy)di^t butylsilanes **2** and **3**. Using dimedone and Cl_2SiMe_2 , the analogous dimethylsilane **1** is obtained. A 1,4-Michael-Addition occurs using cyclohexane-1,3-dione in the reaction with Cl_2SiMe_2 to give a spirocyclic diketone (**4**). The reaction of cyclohexane-1,3-dione with lithium-diisopropylamide and F_3SiCMe_3 leads to the formation of a salt $[\text{}^i\text{Pr}_2\text{NH}_2]_2\text{HF}[\text{C}_6\text{H}_7\text{O}_2]_2$, **5**. The crystal structures of **2** – **5** were determined.

Key words: Silylenole, Cyclohexane-1,3-dione, Spirocyclic Diketone