

Oxokohlenstoffe und verwandte Verbindungen, 30 [1].

Über die Umsetzung von Quadratsäure mit Pyrazolinonen

Oxocarbons and Related Compounds, 30 [1]. On the Reaction of Squaric Acid with Pyrazolinones

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Heating of squaric acid (**1**) with the 1-aryl-3-methyl-5-oxo-2,5-dihydro-*1H*-pyrazoles **3a – j** and the 1,3-disubstituted pyrazolinones **7a – d** in the molar ratio of 1:2 in a mixture of *n*-BuOH/toluene afforded the bis(pyrazolyl)-squaraines **4a – j** and **8a – d**, respectively. Reaction of an excess of **1** with the pyrazolinone **3j** yielded **4j** and the 3-hydroxy-4-pyrazolyl-cyclobutene-1,2-dione **6** as a byproduct. In contrast to disubstituted pyrazolinones, the trisubstituted pyrazolinones **9a – e** reacted with squaric acid (**1**) to give the hydroxy-oxopyrazolyl-cyclobutenediones **10a – e**.

Key words: Squaric Acid, Pyrazolinones, Squaraines, Bis(pyrazolyl)-squaraines,
Hydroxy-oxopyrazolyl-cyclobutenediones