Zur Strukturchemie von 2-Methylenimidazolinen [1]

The Structural Chemistry of 2-Methylenimidazolines [1]

Norbert Kuhn, Ahmed Abu-Rayyan, Ahmed Al-Sheikh, Klaus Eichele,
Cäcilia Maichle-Mößmer, Manfred Steimann und Kamal Sweidan

Institut für Anorganische Chemie der Universität Tübingen,
Auf der Morgenstelle 18, D-72076 Tübingen

Sonderdruckanforderungen an Prof. Dr. N. Kuhn. E-mail: norbert.kuhn@uni-tuebingen.de

Z. Naturforsch. **60b,** 294 – 299 (2005); eingegangen am 4. November 2004

Professor Hermann-Josef Frohn zum 60. Geburtstag gewidmet

The 2-methylenimidazolines $ImC(CN)_2$ (**6a – c**, Im = 1,3-dialkyl-4,5-dimethylimidazol-2-ylidene) are prepared by the reaction of the imidazolium salts [ImBr]Br (**5**) and malodinitrile while $ImC\{C(O)Ph\}_2$ (**7**) is obtained from $ImCH_2$ (**2**) and benzoic fluoride. Both the structural data of **6b**, **6c**, and **7** and the ^{13}C NMR data demonstrate the influence of steric and electronic effects on the charge separation and the nonplanar arrangement of the substituents attached at the carbon atoms of the central olefinic bond.

Key words: Heterocycles, Imidazoles, Zwitterionic States, Crystal Structure