

Synthese und Eigenschaften von 1,3-Diisopropyl-4,5-dimethylimidazolium-2-carboxylat. Ein stabiles Carben-Addukt des Kohlendioxids [1]

Synthesis and Properties of 1,3-Diisopropyl-4,5-dimethylimidazolium-2-carboxylate.
A Stable Carbene Adduct of Carbon Dioxide [1]

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Herrn Prof. Dr. Helmut Quast zum 65. Geburtstag gewidmet

Z. Naturforsch. **54 b**, 427–433 (1999); eingegangen am 27. November 1998

Carbenes, Imidazoles, Carboxylic Acids, X-Ray Data

The reaction of 2,3-dihydro-1,3-diisopropyl-4,5-dimethylimidazol-2-ylidene (**5**) with CO₂ gives the imidazolium-2-carboxylate **6**. The compound can be transformed into the salts of its corresponding Broenstedt acid **8**. The cationic acid chloride **10a** is obtained from **6** and thionyl chloride. Chemical properties and spectroscopic data indicate **6** to be less basic than its anionic counterparts, e. g. PhCO₂⁻. The X-ray structure of **6** is reported.

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