Derivate der 1,3-Dimethyl-5-methylen-barbitursäure

Derivatives of 1,3-Dimethyl-5-methylenebarbituric Acid

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1,3-Dimethylbarbituric acid (**1**, R = Me) reacts with aqueous formaldehyde in the presence of pyridine to give 1,3-dimethyl-2,4,6-trioxo-5-pyridinomethyl-1,3-perhydrodiazin-5-yl-pyridinium ylide (**6**) in good yield. From **6** and 2,3-dihydro-1,3-diisopropyl-4,5-dimethylimidazol-2-ylidene (**7**), the zwitterionic imidazolium derivative 1,3-dimethyl-2,4,6-trioxo-5-(1,3-diisopropyl-4,5-dimethylimidazoliomethyl)-1,3-perhydrodiazin-5-yl-imidazolium ylide (**8**) is obtained. Similarly, the phosphonium compound 1,3-dimethyl-2,4,6-trioxo-5-triphenylphosphoniomethyl-1,3-perhydrodiazin-5-y l-phosphonium ylide (**9**) is obtained from **6** and PPh_3. The crystal structures of **8** and **9** are reported.

Key words: Zwitterionic Compounds, Heterocycles, Imidazoles, Barbituric Acid, Crystal Structure