

# Synthese von 6-Thioxo-1,2,5-oxadiazinan-3-onen und Umwandlung in 3-Amino-2-thiohydantoine und 3-Hydroxy-2-thiohydantoine

Synthesis of 6-Thioxo-1,2,5-oxadiazinan-3-ones and Transformation into  
3-Amino-2-thiohydantoins and 3-Hydroxy-2-thiohydantoins

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Z. Naturforsch. **61b**, 83 – 86 (2006); eingegangen am 30. September 2005

6-Thioxo-1,2,5-oxadiazinan-3-ones **5**, easily available by cyclic thiocarbonylation of  $N^{\alpha},N$ -disubstituted  $\alpha$ -aminocarbohydroxamic acids **4** with 1,1'-thiocarbonyldiimidazole, are transformed by hydrazine or hydroxylamine into 3-amino-2-thiohydantoins **6** and 3-hydroxy-2-thiohydantoins **7**.

*Key words:*  $N^{\alpha},N$ -Disubstituted  $\alpha$ -Aminocarbohydroxamic Acids, 1,1'-Thiocarbonyldiimidazole,  
6-Thioxo-1,2,5-oxadiazinan-3-ones, 3-Amino-2-thiohydantoins, 3-Hydroxy-2-thiohydantoins