

Stereoselectivity during a Dieckmann Analogous Cyclization of (Piperazin-2-yl)propionic Acid Esters

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Z. Naturforsch. **60b**, 1068 – 1070 (2005); received July 4, 2005

Dedicated to Prof. Dr. A. W. Frahm on the occasion of his 70th birthday

The primary Dieckmann cyclization product of the methyl (3,6-dioxopiperazin-2-yl)propionate was trapped with chlorotrimethylsilane and recrystallized. The X-ray crystal structure analysis showed (*S*)-configuration of the novel chiral centre. This configuration supports the hypothesis that formation of the stable lithium chelate is responsible for shifting this unusual Dieckmann cyclization towards the bicyclic product.

Key words: X-Ray Crystal Structure Analysis, Dieckmann Cyclization, Bridged Piperazines, Stereochemistry