

Synthesis and Modification of Substituted 2-Azaanthraquinones

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The cycloaddition-ring transformation reaction sequence of pyrido[1,2-*a*]pyrazines with substituted naphthoquinones furnished a series of new highly substituted azaanthraquinones. Whereas monosubstituted naphthoquinones were normally leading to two regioisomeric products, in some cases a preference for only one regioisomer was observed. The amino derivative **3b** which was isolated as the main product proved to be suitable for further modifications at the primary amino group. The derivatives obtained possess groups capable of connecting the molecule with other substructures for applications as functional dyes. The newly synthesized azaquinones show strong and very broad absorptions between 400 and 600 nm in their UV/Vis spectra.

Key words: Azaanthraquinones, Ring Transformation, Cycloaddition, Functional Dyes