

multi-membered O,N,S-heterocycles (with at least 2 different heteroatoms)

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A One-Pot Synthesis of New Macrocyclic Compounds with Tetraaminoethene Substructure.

— The one-pot synthesis of new 1:1 macrocyclic compounds, in some cases as mixtures with 2:2 macrocycles, starts with quantitative conversion of amidine (I) to the dilithium salt. Subsequent quenching is only possible with phenyl isocyanate. In contrast, methyl or benzoylisothiocyanate do not react in this manner. Isolation of single crystals of the bis-adduct dilithium salt for X-ray analysis fails. Thus, without further purification, subsequent cyclization is accomplished with α,ω -dielectrophiles. — (WENZEL, M.; BECKERT, R.; GUENTHER, W.; GOERLS, H.; Eur. J. Org. Chem. (1998) 9, 1803-1810; Inst. Org. Makromol. Chem., Friedrich-Schiller-Univ., D-07743 Jena, Germany; EN)

