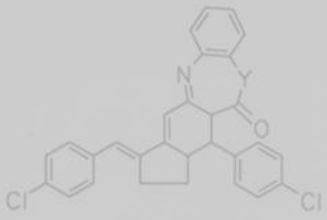
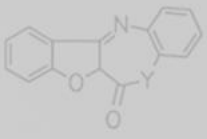


IV

a Y: –NH–
b Y: –O–



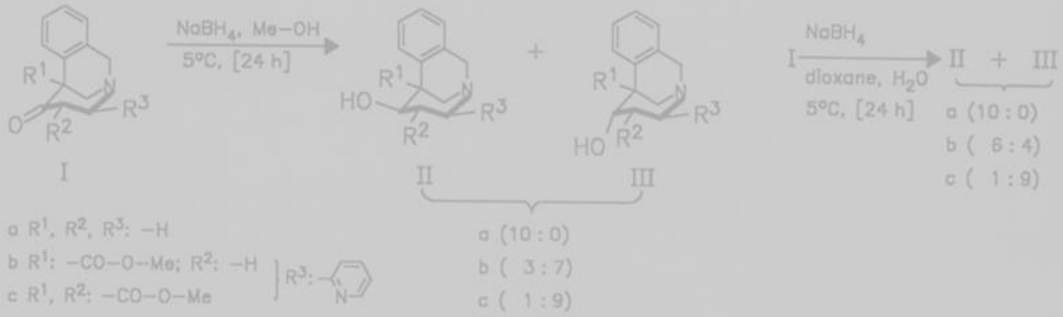
V

Multi-Membered N-Heterocycles

R 0690

8927-220

Reductions of 3,11-Dipyridyl-Substituted 5-Oxo-2,6-methano-6-benz[c]azocine Carboxylates. — Reduction of the oxomethanobenzazocines (I) with $NaBH_4$ or $LiAlH_4$ is performed under various conditions to yield the epimeric secondary alcohols (II) - (IV). (Some isolated yields are given in the original paper). — (HOLZGRABE*, U.; PIENING, B.; HALLER, R.; Arch. Pharm. (Weinheim, Ger.) 322 (1989) 1, 21—23; Pharm. Inst., Univ., D-2300 Kiel; Ger., Abstr. Eng.) — Weber

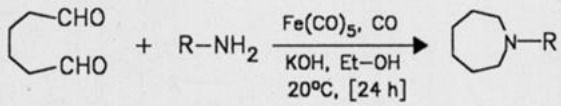


Multi-Membered N-Heterocycles

R 0690

8927-221

A New and Convenient Synthesis of N-Substituted Perhydroazepines from Adipaldehyde and Primary Amines with Tetracarbonylhydridoferrate, $HFe(CO)_4^-$, as a Selective Reducing Agent. — The iron hydrido complex mentioned in the title is generated in situ from pentacarbonyliron and carbon monoxide in ethanolic KOH. It is employed in the reductive amination of the dialdehyde (I), forming the 1-substituted perhydroazepines (III). — (SHIM*, S. C.; DOH, C. H.; KIM, T. J.; LEE, H. K.; KIM, K. D.; J. Heterocycl. Chem. 25 (1988) 5, 1383—1385; Dep. Ind. Chem., Eng. Coll., Kyungpook Natl. Univ., Taegu 635, Korea; Eng.) — Rulf



I II III

a R: $-(CH_2)_2-OH$,  57/62%

b R: –Ph,  70/65%

c R:  –Z [Z: –O–Me, –Cl] 55/50%

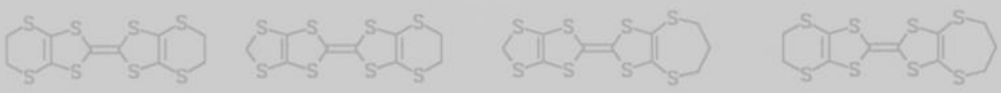
d R: $-CH_2-Ph$,  90/73%

Multi-Membered O,S-Heterocycles

R 0691

8927-222

New Electron Donors (II) - (IV) Related to BEDT-TTF (I). — (KINI, A. M.; GATES, B. D.; TYTKO, S. F.; ALLEN, T. J.; KLEINJAN, S. B.; WANG, H. H.; MONTGOMERY, L. K.; BENO, M. A.; WILLIAMS, J. M.; Synth. Met. 27 (1988) 3/4, B445—B448; Chem. Mat. Sci. Div., Argonne Natl. Lab., Argonne, IL 60439, USA; Eng.) — Mais



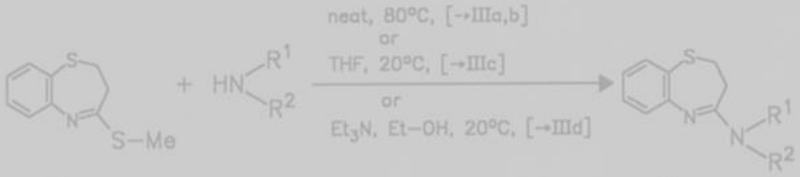
I II III IV

Multi-Membered O,N,S-Heterocycles

R 0692

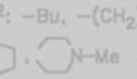
8927-223

Studies on the Chemistry of O,N- and S,N-Containing Heterocycles. Part 4. Investigations on the Nucleophilic Substitution of Activated 1,5-Benzothiazepines. — The methylthiobenzothiazepine (I) reacts with the amino compounds (II), yielding the substitution products (III). (IIIc) is diazotized to form the tetrazole (V). Anthranilic acid (VI) undergoes cyclocondensation with (I) to give the tetracyclic compound (VII). 2-Aminothiophenol (VIII) and the 3-aminopropionates (IX) produce the benzothiazoles (X). — (BARTSCH*, H.; ERKER, T.; J. Heterocycl. Chem. 25 (1988) 5, 1399—1401; Inst. Pharm. Chem., Univ., 1090 Wien, Austria; Eng.) — Rulf



I II III

a R^1: –H; R^2: –Bu, $-(CH_2)_2-NMe_2$ 86/45%

b R^1–R^2:  50/60/97%

c R^1: –H; R^2: $-NH_2$ 48%

d R^1: –H; R^2: –OH 50/60/97%

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