

multi-membered N-heterocycles

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Condensation of Fluoroalkyl-Containing 1,3-Dicarbonyl Compounds with Ethylenediamine.

— Reaction of the fluoroalkyl-substituted β -diketones (I) or β - keto esters (IV) with ethylenediamine hydroperchlorate (II), generated in situ from ethylenediamine and its dihydroperchlorate, forms the 1,4- diazepines (III) and (V) respectively. The corresponding copper(II) 1, 3-diketones (VI) react with (II) to produce the diazepines (IIIa), (IIIb) or the N,N'-ethylenebis(aminovinyl ketone) (VIIc). — (SALOUTIN, V. I.; SKRYABINA, Z. E.; BURGART, YU. V.; J. Fluorine Chem. 56 (1992) 3, 325-334; Dep. Fine Org. Synth., Urals Div., Russian Acad. Sci., 620219 Ekaterinburg, Russia; EN)

