

ring closure reactions

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Synthesis of Substituted Pyrazoles, 1,3,4-Thiadiazoles, and 1,2,4-Triazoles by Condensation Reaction of 1,3-Dioxo Compounds with Thiosemicarbazide Derivatives.

— Acetylacetone (I) is coupled with the thiosemicarbazides (II) to give the thiosemicarbazones (III) which undergo cyclization upon thermal treatment, producing the triazolethiones (IV) and the pyrazole (V). (Mechanism, further examples in the original paper). — (ZELENIN, K. N.; SOLOD, O. V.; ALEKSEEV, V. V.; PEKHK, T. I.; KUZNETSOVA, O. B.; TERENT'EV, P. V.; KALANDARISHVILI, A. G.; Khim. Geterotsikl. Soedin. (1990) 9, 1260-1270; Voenno-med. akad. im. Kirova, Leningrad 194175, USSR; RU)

