



Ring Transformation of Heterocycles Transformation of 4,5-Dihydro-5,5-Dimethyl-H-1,2,4-Triazoles Into 5-Methyl-H-1,2,4-Triazoles

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Abstract

[en] Reaction of 1-aryl-3-acetyl-4,5-dihydro-5,5-dimethyl-1H-1,2,4-triazoles(3) with acetyl chloride or acetic anhydride is found to give the ring transformation product 1-aryl-3-acetyl-5-methyl-1H-1,2,4-triazoles (4) instead of the expected N-acetyl derivative (5). This ring transformation is believed to start with N-acylation of the dihydrotriazole (3) to form the corresponding N-acetyl derivative (5), which extrudes the actone via a four-membered ring intermediate (6) and recyclizes to the aromatic triazole (4) suggesting the conversion sequence (3)→(5)→(6)→(4). It is Also found that. The triazoles 4 can be prepared directly via a one put reaction between nitrilimines and acetaldoximes . (Author) 8 refs., 4 Sches

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