

Multi-membered N-heterocycles

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DOI: 10.1002/chin.201137172

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Synthesis of Saturated 1,4-Benzodiazepines via Pd-Catalyzed Carboamination Reactions. — Substrates such as (IV) and (VII) bearing an allylic methyl group are converted into cis-disubstituted products (>90% d.e.). Larger allylic substituents and alkenyl bromide chains do not react. Benzodiazepin-5-ones such as (XIII) and (XVI) arise with good yields. In contrast, an allylic methyl group is unsuccessful and a complex mixture of regioisomers is obtained. — (NEUKOM, J. D.; AQUINO, A. S.; WOLFE*, J. P.; *Org. Lett.* 13 (2011) 9, 2196-2199, <http://dx.doi.org/10.1021/ol200429a>; *Dep. Chem., Univ. Mich., Ann Arbor, MI 48109, USA; Eng.*) — H. Simon



