

Bridged Compounds

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Synthesis of Amines with Brexane, Brendane and Noradamantane Structure. — Starting from the isomeric mixtures of brexan-5-ol (I) or noradamantan-2-ol (V) the acetyl amino derivatives (III) or (VI), respectively, are prepared via Ritter reaction. The acetyl derivatives (III) or (VI) are smoothly reduced to the amines (IV) or (VII). Furthermore, starting from brendan-2-one (VIII) or noradamantan-2-one (XIII), respectively, the oximes (X) or (XIV) are prepared, whose reduction yields the amines (XI) or (XV). The formation of (XI) may be accompanied by the formation of the azatricyclodecane (XII), which is produced by an intramolecular rearrangement. The content of (XII) in the reaction mixture depends on the solvents and temperatures employed. The methods presented here offer an easy access to nitrogen derivatives of brexanes, brendanes and noradamantanes. — (GEVORKYAN, G. G.; ORDUBADI, M. D.; PEKHK, T. I.; BELIKOVA, N. A.; Zh. Org. Khim. 25 (1989) 7, 1421—1428; Moskovskii gos. univ. im. Lomonosova; Russ.) — Schönefeld

