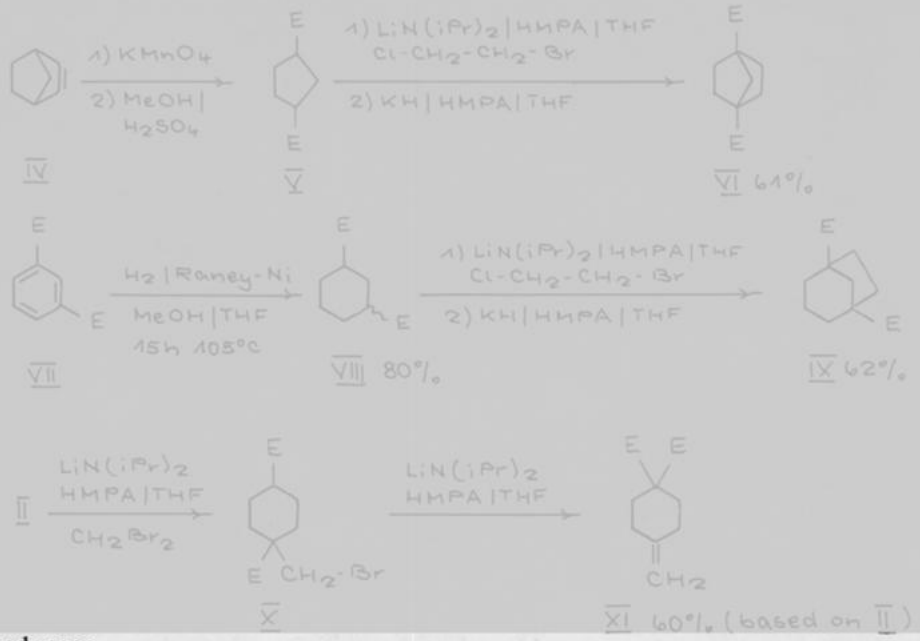
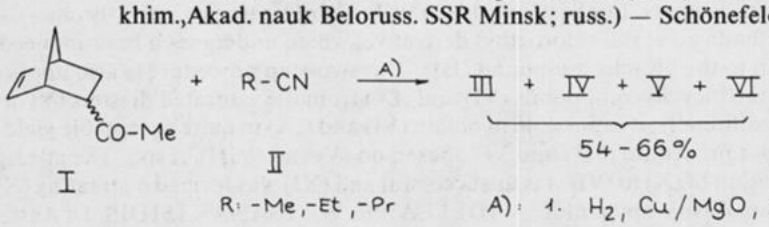


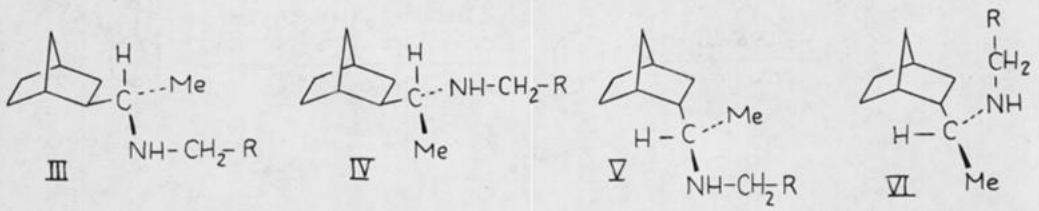
Brückenverbindungen

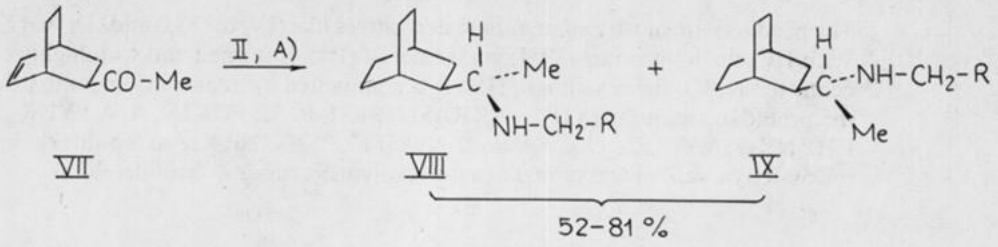
Q 0060

8615-169

Synthesis of 2-(α-Alkylaminoethyl)bicyclo[2.2.1]heptanes and 2-(α-Alkylaminoethyl)-bicyclo[2.2.2]octanes. — The reductive amination of the unsaturated bicyclic ketones (I) or (VII) in the presence of the nitriles (II) yields the title compounds (III)—(VI) and (VIII) and (IX), respectively, as main products accompanied by a series of by-products in minor quantities. The reaction starts with the hydrogenation of the C=C bonds of the ketones (I) or (VII) to give the saturated bicyclic compounds and of the nitriles (II) to the corresponding primary amines, followed by formation of the Schiff bases, which are then hydrogenated to give the title compounds. — (KOZLOV, N. G.; PEKHK, T. I.; VYALIMYAE, T. K.; ORDUBADI, M. D.; BELIKOVA, N. A.; Zh. Org. Khim. 21 (1985) 12, 2511—17; Inst. fiz.-org. khim.,Akad. nauk Beloruss. SSR Minsk; russ.) — Schönefeld



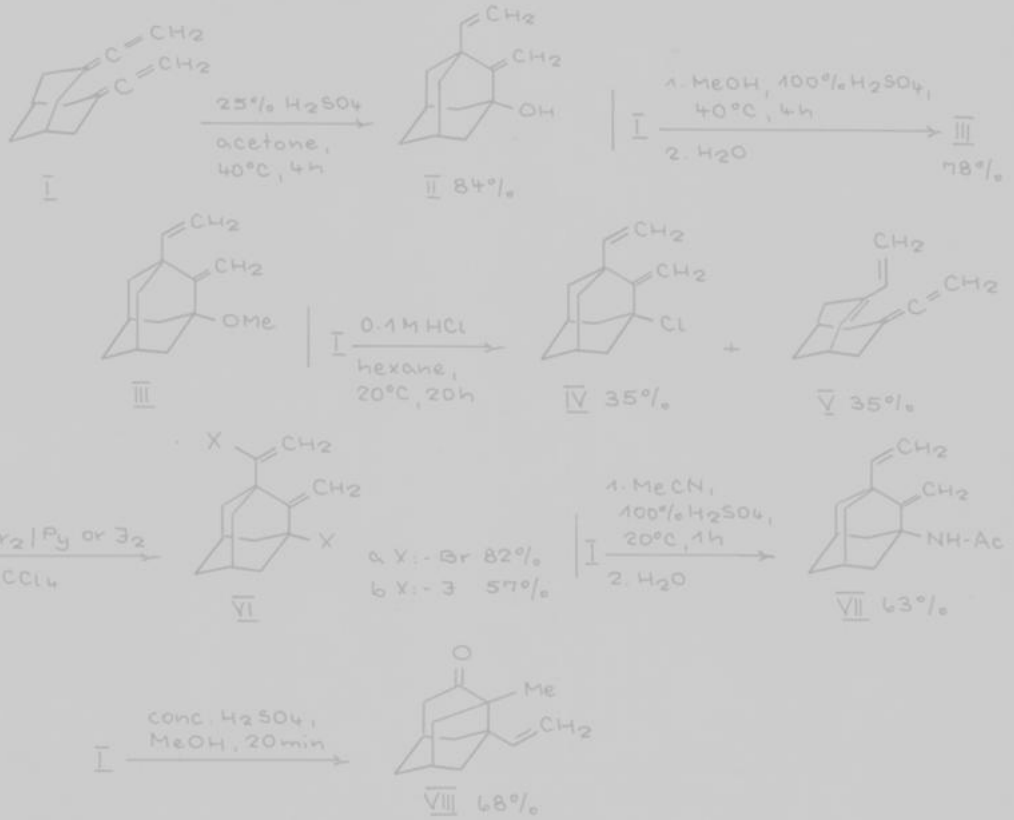




Brückenverbindungen

Q 0060 8615-170

Reaction of 3,7-Divinylidenebicyclo[3.3.1]nonane with Electrophilic Reagents. — The title compound (I) is reacted with various electrophiles to yield 1-vinyl-2-methylene-adamantanes like (II)—(IV), (VI) and (VII). A by-product of the reaction of (I) with HCl is the isomerized compound (V) and the reaction of (I) with concentrated H_2SO_4 is accompanied by rearrangement to the protadamantanone (VIII). — (KRASUTSKII, P. A.; FOKIN, A. A.; KULIK, N. I.; YURCHENKO, A. G.; Zh. Org. Khim. 21 (1985) 12, 2518—22; Kievskii politekh. inst. im. 50-letiya Velikoi Oktyabr'skoi sots. revolyutsii; russ.) — Schönefeld



Brückenverbindungen

Q 0060 8615-171

Synthesis and Reactivity of 3-Methylene-7-vinylidenebicyclo[3.3.1]nonane. — The synthesis of the novel title compound (III) is described. This compound represents an example of a pseudo-conjugated allene and is reacted with various electrophiles.