bridged compounds

Q 0060 34 - 088 3-Trimethylsilylbicyclo[3.2.1]oct-2-ene in the Synthesis of Functionalized Bicyclo[3.2.1]octane Systems. — The readily available title 3-silylbicyclooctene (IV) is shown to be a useful intermediate in the synthesis of functionalized bicyclooctanes. It smoothly undergoes Friedel–Crafts acylation $[\rightarrow(VI)]$ and epoxidation reactions $[\rightarrow(VIII)]$ without any rearrangement or migration side reactions. — (PATIL, GOVINDAGOUDA S.; NAGENDRAPPA, GOPALPUR; Indian J. Chem., Sect. B: Org. Chem. Incl. Med. Chem. 41 (2002) 5, 1019-1024; Dep. Chem., Cent. Coll., Bangalore Univ., Bangalore 560 001, India; EN)

$$IV = \frac{2.4 \text{ equiv. } \underset{\text{R}^{1} \subset I}{\text{C}_{I}} \text{ (V)}}{\text{AlCl}_{3}, \text{ CH}_{2}\text{Cl}_{2}, -15^{\circ}\text{C}} \xrightarrow{\text{H}} \underset{\text{H}}{\text{H}} \underset{\text{O}}{\text{H}} \text{R} \xrightarrow{\text{NH}_{2}\text{O}\text{H}+\text{ICl}} \xrightarrow{\text{Py}} \underset{\text{H}}{\text{H}} \underset{\text{N}_{-} \text{N}}{\text{N}_{-}} \underset{\text{O}}{\text{O}\text{H}} \text{C}} \times \underset{\text{G}}{\text{R}} \text{R} \xrightarrow{\text{NH}_{2}\text{O}\text{H}+\text{ICl}} \xrightarrow{\text{R}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{O}\text{H}} \times \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \underset{\text{N}_{-} \text{N}}{\text{N}} \xrightarrow{\text{N}} \xrightarrow{\text{N$$

1