

ONE - STEP SELECTIVE SYNTHESIS OF 13-*epi*-MANOYL OXIDE

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Abstract. The selective one-step synthesis of 13-*epi*-manoyl oxide is reported basing on a low-temperature superacidic cyclization of sclareol. The reaction conditions have been finely tuned in order to achieve a 9:1 ratio between epimeric oxides in favour of the desired 13-*epi*-oxide. These results have been interpreted by a hypothetical S_N2 mechanism which occurs with inversion of configuration around C-13 chiral center of the starting substrate. The preparative value of the elaborated procedure is demonstrated on a gram-scale experiment.

Keywords: sclareol, cyclization, superacid, ether, terpene.