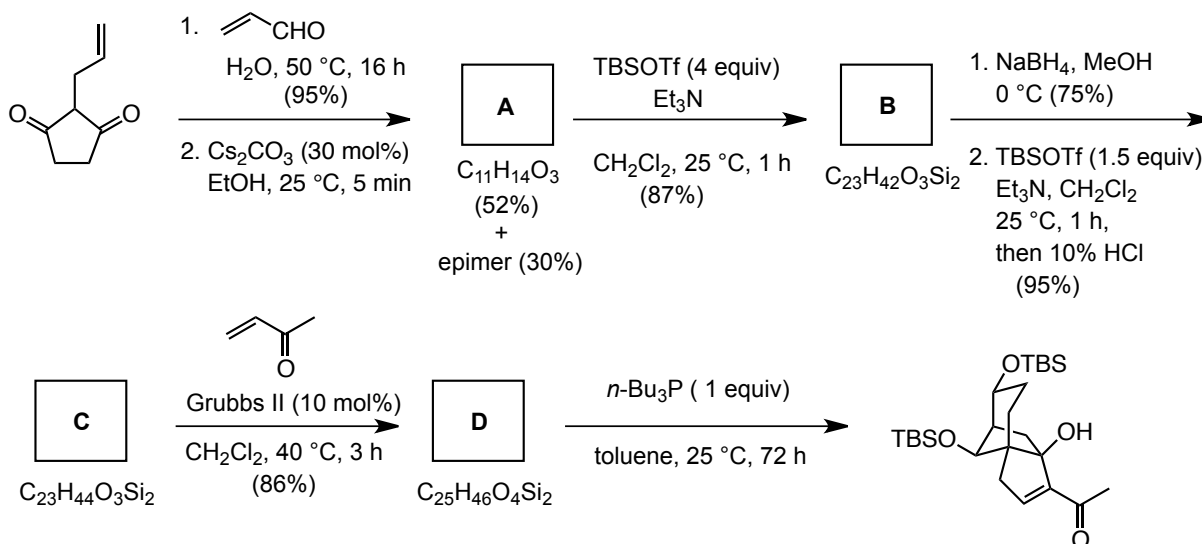


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ChemRxiv DOI: 10.26434/chemrxiv.5728286.

Explain reaction mechanisms of the following transformations.



¹³C NMR (125 MHz, CDCl₃): 26.8 (CH₂); 31.5 (CH₂); 34.3 (CH₂); 39.0 (CH₂); 54.3 (CH, CH-CHOH); 61.7 (Cq); 73.6 (CH, HCOH); 118.7 (=CH₂); 132.4 (vCH); 211.1 (CO); 212.9 (CO) ppm;
IR (ATR): ν (CO): 1764, 1716 cm⁻¹;