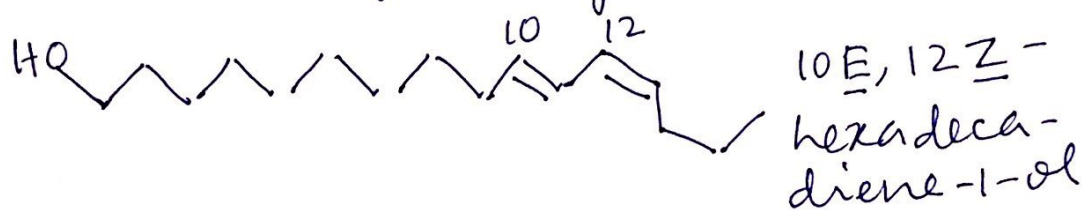


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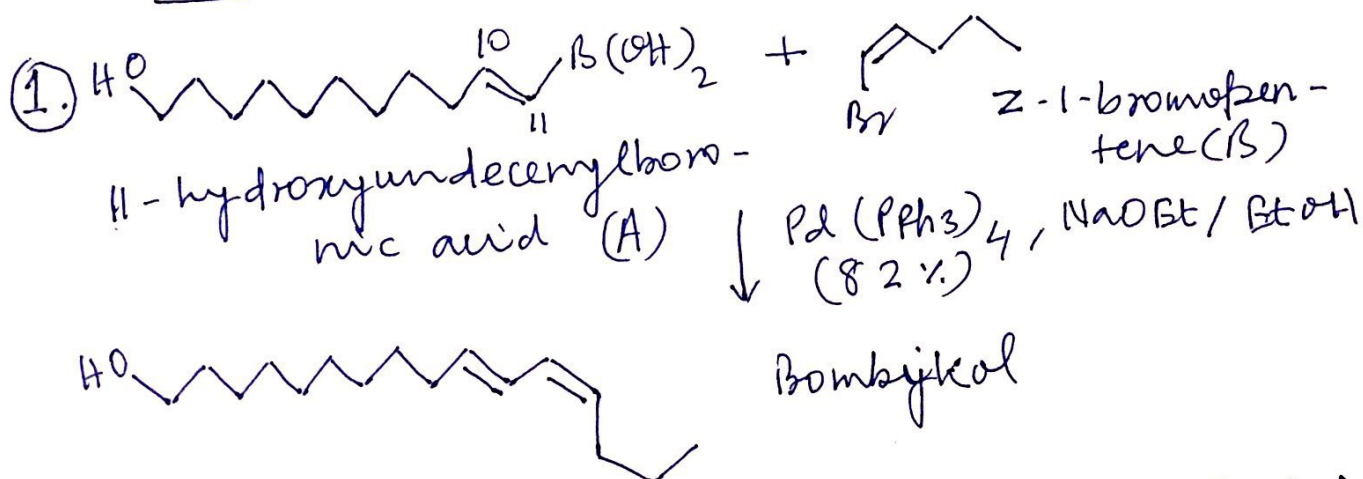
(1)

Pheromone: - Bombykol

Bombykol is a pheromone released by the female silkworm, Bombyx mori. It was isolated by German Biochemist Adolf Butenandt in 1959. Butenandt elucidated the structure of Bombykol as



Suzuki et al. synthesized bombykol and its other geometrical isomers by using Pd-catalyzed Suzuki cross coupling rxn. in stereoselective manner (Suzuki et al. Tetrahedron Letters 1983, 39, 3271-3277).



The two precursors used for synthesis of Bombykol was freshly prepared

③

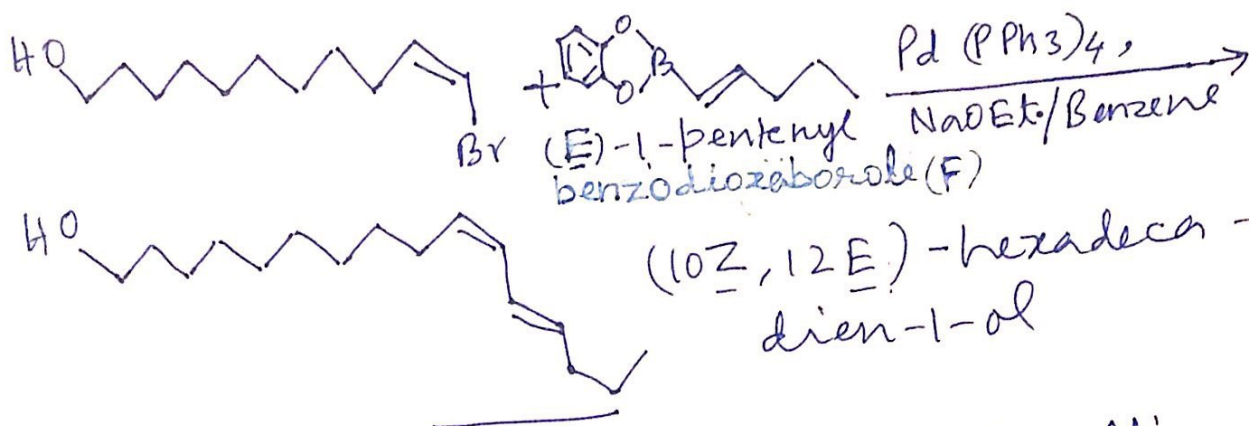
Synthesis of (E)-1-Iodopentene (C)

③ Synthesis of (Z,Z)-Isomer of Bombykol

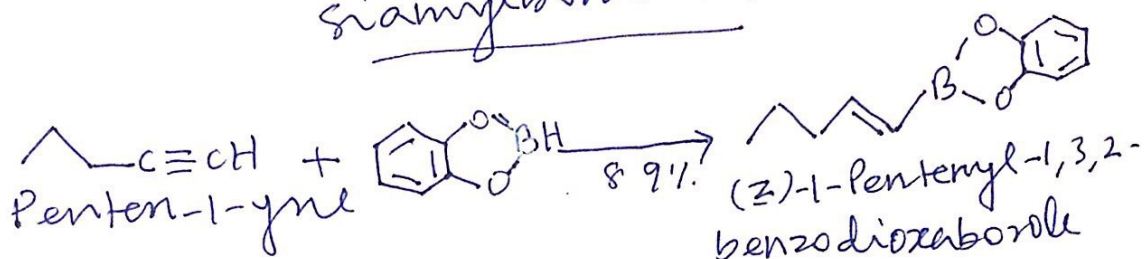
④.

Synthesis of (Z, E)-Isomer of Bombykol

④



Synthesis of precursor (Z)-1-pentenyl di-siamylborane (F)



0