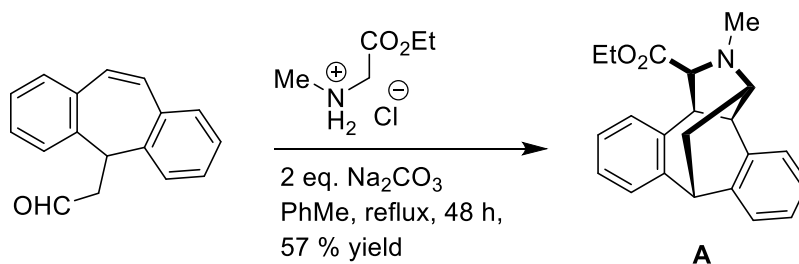


- 1) - Identify the general reaction class of the given transformation towards **A**.
 - Draw all relevant synthetic intermediates.



- 2) The outlined transformation consists of a series of different cycloadditions, and gives rise to the complex intermediate **B** in the total synthesis of a bioactive alkaloid.
 - Identify the different cycloadditions.
 - Draw all relevant synthetic intermediates. Pay attention to regio- and stereochemistry.

