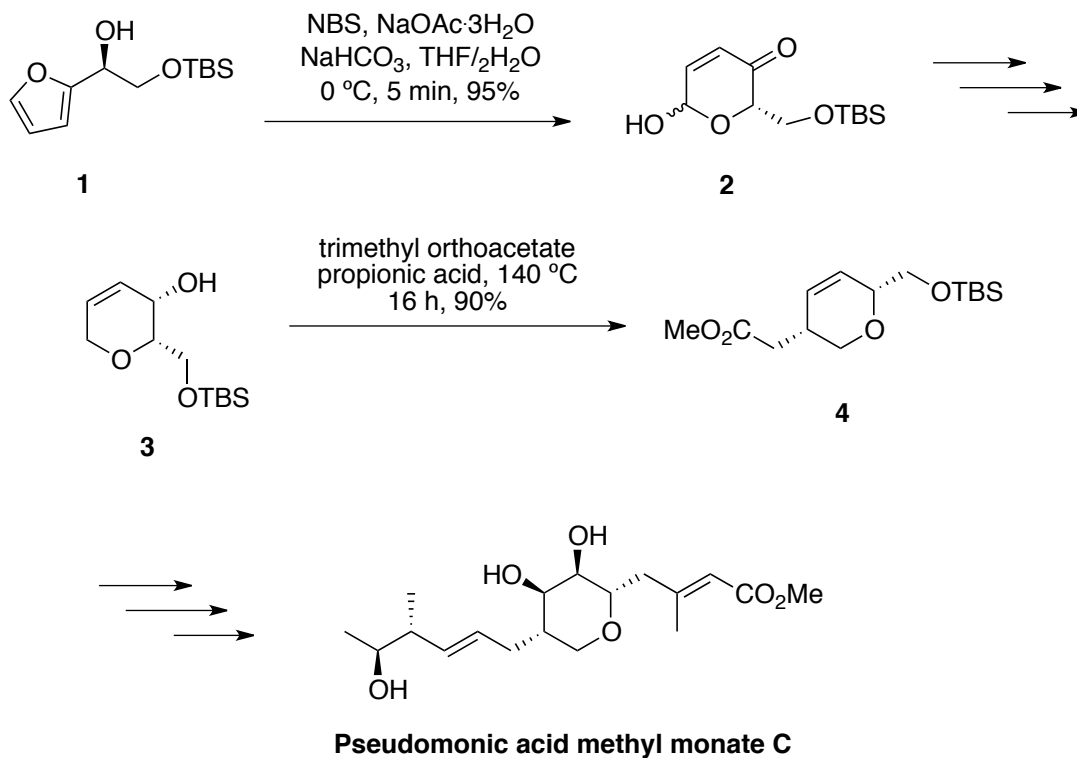


**A unified strategy for the synthesis of the C1-C14 fragment of marinolic acids, mupirocins, pseudomonic acids and thiomarinols: total synthesis of pseudomonic acid methyl monate C**

*Problem:*



- Give the mechanism from **1** to **2**. What is the name of this reaction?
- Give the mechanism from **3** to **4**. What is the name of this reaction?



*Keywords:*

Achmatovicz reaction, Johnson-Claisen rearrangement