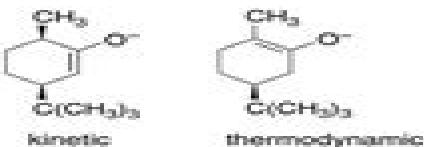


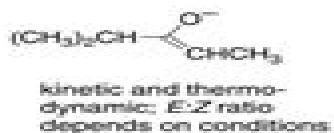
1.2. a. This is a monosubstituted cyclohexanone where the less-substituted enolate is the kinetic enolate and the more-substituted enolate is the thermodynamic enolate.



b. The conjugated dienolate should be preferred under both kinetic and thermodynamic conditions.



c. This presents a comparison between a trisubstituted and disubstituted enolate. The steric destabilization in the former makes the disubstituted enolate preferred under both kinetic and thermodynamic conditions. The *E*/*Z* ratio for the kinetic enolate depends on the base that is used, ranging from 60:40 favoring *Z* with LDA to 2:98 favoring *Z* with LiHMDS or Li 2,4,6-trichloroanilide (see Section 1.1.2 for a discussion).



d. Although the deprotonation of the cyclopropane ring might have a favorable electronic factor, the strain introduced leads to the preferred enolate formation occurring at C(3). It would be expected that the strain present in the alternate enolate would also make this the more stable.



# Advanced Organic Chemistry Part A Solution

**Francis A Carey, Dr.**

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