ORGANIC CHEMISTRY 1 LECTURE GUIDE 2019

BY RHETT C. SMITH

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Organic Chemistry 1
Lecture Guide 2019

By Rhett C. Smith, Ph.D.

Companion Books from the Proton Guru:

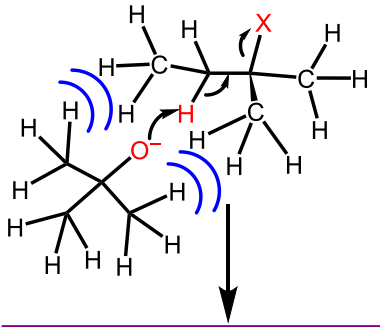
Organic Chemistry 1 Reactions and Practice Problems 2019

by Rhett C. Smith

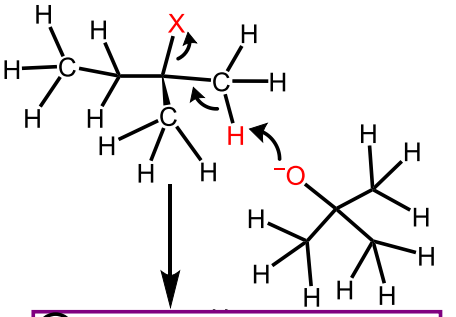
Organic Chemistry 1 Primer 2019,

by Rhett C. Smith, Andrew G. Tennyson, and Tania Houjeiry

Steric hindrance to deprotonate a sterically-encumbered site increases as the base becomes bulkier:



A



B

As a result:

C

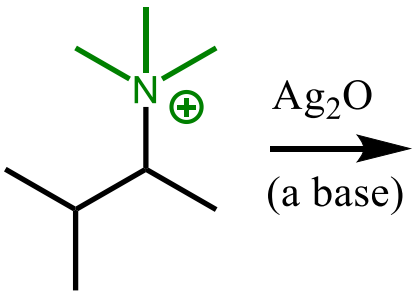
Notes

The less-substituted product (non-Zaitsev) is sometimes called the

(A)

This terminology came from a clever version of the E2 reaction in which the leaving group is a bulky amine. This variation is called the:

(B)

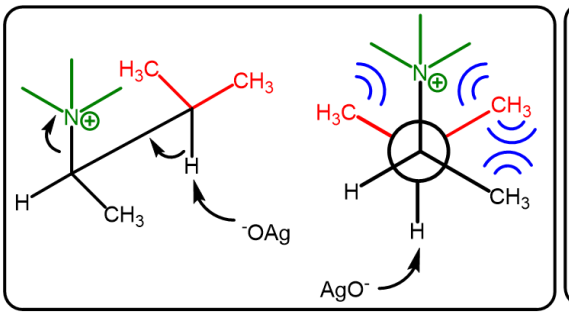


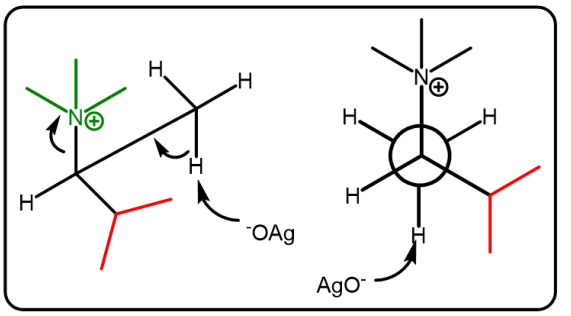
(C)

Conformational analysis may help us visualize and explain why the Hofmann product is favored…

Notes

On the left is the conformation necessary to produce the Zaitsev Product. On the right is the conformation necessary to produce the Hofmann Product.





(A) Product:	(B) Product:
Disfavored because:	Favored because:

Notes