

ORGANIC CHEMISTRY 1 LECTURE GUIDE 2019

BY RHETT C. SMITH

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Executive Editor: Rhett C. Smith, Ph.D. You can reach him through our office at: [IQ@protonguru.com](mailto:IQ@protonguru.com)

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# Organic Chemistry 1 Lecture Guide 2019

By Rhett C. Smith, Ph.D.

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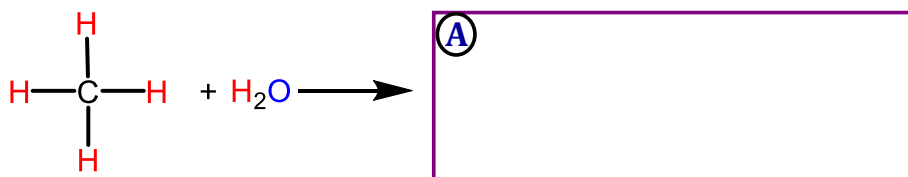
*Organic Chemistry 1 Reactions and Practice Problems 2019*

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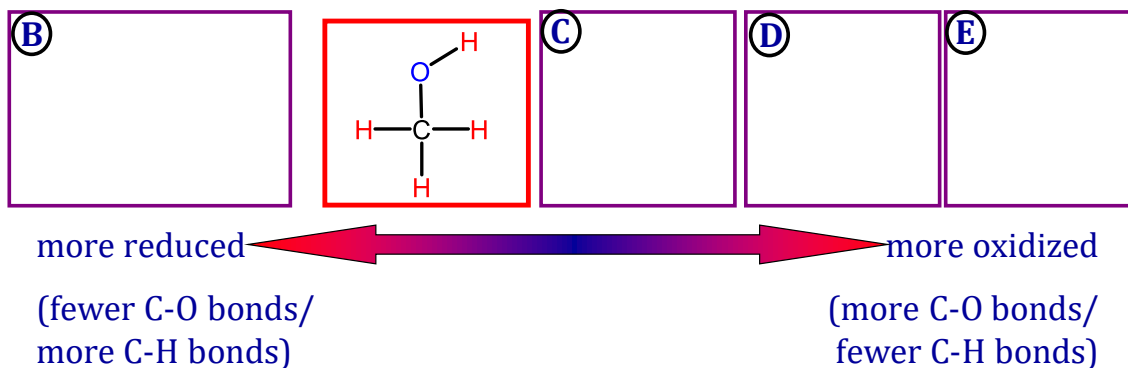
by Rhett C. Smith, Andrew G. Tennyson, and Tania Houjeiry

Lecture Topic II.12: Oxidation and Reduction  
Definitions for Organic Chemistry



When methane burns in the presence to form carbon dioxide, it is said to undergo “**oxidation**”. The opposite of oxidation is “**reduction**”

In general, the more C-H bonds that are replaced by C-O (or C to other more electronegative atom) bonds in an alkane, the more oxidized the carbon atom becomes:



Notes