

The Absolute, Ultimate Guide to
Lehninger **PRINCIPLES**
of **BIOCHEMISTRY**
Study Guide and Solutions Manual

Seventh Edition



Marcy Osgood
Karen Ocorr

Lehninger Study Guide Solutions Manual

**David L. Nelson, Albert L.
Lehninger, Michael M. Cox**



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lialh oc ch₃ 3 h 4 benzaldehyde c₆h₅cho ch₂ohch₂oh h step 1 toluene oxidation with kmno₄ kmno₄ is a strong oxidising agent which oxidise toluene to benzaldehyde in 1st step

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$$\text{MnO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O}$$

$$\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$$

$$\text{MnO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{Mn}^{2+} + 2\text{H}_2\text{O}$$

$$\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{OH}^-$$
basic m n x 7 o x 4 x e x m n x 6 o x 4 x 2 b a s i c

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