CHEM 261 October 19, 2020

**Further Practice Sn1 and Sn2**

**Sn Example:**

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In order to make the above reaction occur, a stronger base (such as sodium methoxide) must be used to drive the forward reaction.



**Example:**



The above reaction will not occur unless hydrogen cyanide is converted into sodium cyanide using NaOH.

The product is acetonitrile, a common laboratory solvent.

**REVIEW:** SN2 yes or no ? Examples

**Ex #1) Will NOT proceed – no SN2**



**Example:** Tertiary Halide

-No SN2 possible, sterically crowded – does work by SN1



**Ex #1)**

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**Ex #2)**

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**Mechanism:**

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**Ex #2)**

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**Ex #3)**

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**Ex #3) This one can work in principle**



**Ex #4) The one below does NOT work**



In this reaction, the NH2 species will pull off the most acidic proton (the one on the alcohol) to from an **alkoxide** instead of undergoing an SN2 reaction,

Sn1 Reaction

