

HOMEWORK ASSIGNMENT- FERMENTATION/DISTILLATION (cont.)

Answer the following questions:

Who was Eduard Buechner and how did he win the Nobel prize?

Why is *Saccharomyces cerevisiae* used as the preferred yeast strain used for ethanol fermentation (name the phenomena)?

Describe what distillation does.

What is specific gravity and how is it used to measure the fermentation/distillation process?

How much energy does ethanol contain (energy/volume) when utilized in combustion, consuming, and reacting with water?

What determines the economic benefit of using ethanol for automotive fuel in the U.S?