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Branch: Chemical Processes Engineering

Academic Year: 2016-2017

Groups No.: P11

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Project Title: : Production of Cumene

Specific Objective includes:

1-Definition and chemical formula:

N-Butyl acetate $C_6H_{12}O_2$, is an ester which is a colorless flammable liquid at room temperature. Butyl acetate is found in many types of fruit, where along with other chemicals it imparts characteristic flavors and has a sweet smell of banana or apple.

2- Other Names: N-Butyl acetate is also known as (butyl ethanoate ,Acetic acid,n-butyl ester; Butile) .

3-Goal of project:

Product of Butyl acetate by the Esterification of acetic acid and n-butanol.

4- Production Methods:

Butyl acetate is produce by the following manufacturing process:-

1. Esterification of acetic acid and n-butanol
- 2 Esterification of butyl alcohol and acetic acid
3. From n-butanol and ethylacetate.

- Suitable method; Esterification of acetic acid and n-butanol. The method is characterized by the following specification:



5-Flow sheet for selected production method

