

Students surname and name:

1.
2.
3.

Catalyst:

type:.....; amount:[g]; volume:[mL]

1. Cracking parameters:

Raw material name:

Process temperature:[°C]

Process duration:[min];[h]

Infusion pump setting:[%]

Raw material stream:[g/h]

Initial mass of the liquid sample receiver:[g]

Final mass of the liquid sample receiver:[g]

Mass of the liquid in the receiver:[g]

Mass of unreacted raw material:[g]

Mass of liquid products:[g]

Gas meter setting before process:[L]

Gas meter setting after process:[L]

Gaseous products volume:[L]

Gaseous products mass stream:[g/h]*

*assumption regarding gaseous products (propane, butane?)

2. Cracking parameters:

Raw material name:

Process temperature:[°C]

Process duration:[min];[h]

Infusion pump setting:[%]

Raw material stream:[g/h]

Initial mass of the liquid sampler receiver:[g]

Final mass of the liquid sample receiver:[g]

Mass of the liquid in the receiver:[g]

Mass of unreacted raw material:[g]

Mass of liquid products:[g]

Gas meter setting before process:[L]

Gas meter setting after process:[L]

Gaseous products volume:[L]

Gaseous products mass stream:[g/h]*

*assumption regarding gaseous products (propane, butane?)

3. Catalyst regeneration - coke firing (burning)

Temperature in afterburner:[°C]

Temperature regulator setting:

Volume of 0,1M NaOH:[mL]

4. Acid titration

1. a[mL] b[mL]

2. a[mL] b[mL]

3. a[mL] b[mL]

average a:[mL] average b:[mL]

Na₂CO₃ amount:[g]

Coke amount:[g]

Coke stream:[g/h]

4. Catalyst yield [g liquid products / g catalyst]

5. GLC analysis of gaseous and liquid products (peak number; retention time; area %) including raw material parameters:

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6. Concentration of all identified compounds:

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7. Students remarks and comments:

Students signatures:

1.
2.
3.

Instructor's signature:

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