

CSTR - MEASUREMENT RECORD

Stirrer speed: 1/min

Factor of 0.1 mol/dm³ NaOH solution:

Factor of 0.1 mol/dm³ HCl solution:

Volumetric flow rates:

	NaOH	ethyl acetate	outflow
Scale			
Collected sample, ml			
Collecting time			
Collected sample, ml			
Collecting time			
Collecting sample, ml			
Sampling time			
Calculated average volumetric flow rate (dm³/h)			

Determination of the inlet composition

	NaOH	ethyl acetate
Titration data		
Concentration (mol/dm³)		

Samples at steady state

Number of the sample					
Time	<i>t</i> (min)				
Volumetric flow rate	<i>V</i> (ml)				
	Δt (s)				
	\dot{V} (dm ³ /h)				
Temperature	T (°C)				
	\bar{T}_h (°C)				
Weight of the samples	<i>m</i> ₁ (g)				
	<i>m</i> ₂ (g)				
	<i>m</i> ₂ - <i>m</i> ₁ (g)				
0.1 M NaOH consumption (ml)					
c_{NaOH} (mol/dm³)					

Summary of the results

\dot{V}_{NaOH} (dm ³ /h)		$c_{NaOH,0}$ (mol/dm ³)	
\dot{V}_{EtAc} (dm ³ /h)		$c_{EtAc,0}$ (mol/dm ³)	
$X_{measured}$ (%)		c_{NaOH} (mol/dm ³)	
T (°C)			
k (dm ³ /mol*min)			
\dot{V} (dm ³ /h)			
\bar{t} (min)			
$X_{CSTR\ model}$ (%)			