Report No. (6)

Reaction Stoichiometry: Determination of The Limiting Reactant and Yield Percentage

Student Names	:		Section No: .		
The objective	of the experiment:				
Reaction equa				••••••	
	•••••			• • • • • • • • • • • • • • • • • • • •	
Results and ca	lculations:				
	m _{Na₂CO₃}	V_{HCl}	M _{HCl}		
	(Malar masses (g/ma	l): H = 1, C = 12, O = 1	6 No = 23 Cl = 35 5)		
	(Moiai masses (g/mo	$Mw_{Na_2CO_3} =$	0, 11a – 23, C1 – 33. 3)		
		22-3			
	miting reactant:				
tne number o	f moles that used in the	e experiment:			
	$n_{\mathrm{Na_2CO_3}}$		n _{HCl}		
		1			
The limiting reactant is					

2.	The	vield	percentage:
		,,	per cerrenge.

m _{INITIAL}	m TOTAL product

•	Calculate the	mass	01 L	NaCI	proaucea	(MNaCl):

• Calculate the number of moles of NaCl ($n_{NaCl, \, theorical}$):

• Determined (m_{NaCl, theorical}):

• The yield percentage of NaCl: