AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

Yield and atom economy of chemical reactions.

Questions



Total Marks: /16

Percentage Yield	
${\tt Q1}$: Give three potential reasons, why it is not always possible to obtain the product from a reaction.	calculated amount of
1	
2.	
3	
	(3 marks)
2: How is the amount of product produced quantified?	
	(1 mark)
3: Complete the following equation.	
%Yield = $x = 10$	0
4: Calcium oxide is reacted with water to form calcium hydroxide. If the tlut only 1.4g is produced. What is the percentage yield?	(2 marks) neoretical yield is 3.0g,
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Q7: Complete the equation for how atom economy is calculated.
(Relative formula mass of desired product from equation) x 100
(1 mari
Using concentrations of solutions in mol/dm³
Q8: If 350g of NaCl is dissolved in water to a final volume of 3dm ³ . Calculate the concentration of the solution.
(2 mark
Use of amount of substance in relation to volume of gases
Q9: Equal amounts of gases in moles occupy the same volume under the same conditions of temperature and pressure. What is the volume of one mole of any gas at room temperature and pressure?
(1 mark
Q10: Calculate the volume of ammonia that is produced from 300 cm ³ of hydrogen.
$N_2 + 3H_2 \longrightarrow 2NH_3$
(1 mark