

Level		Skills descriptors
<p>Level 4</p> <p>19–24 marks</p> <p>Compelling, Convincing Communication</p>	<p>Upper Level 4</p> <p>22–24 marks</p>	<p>Content</p> <ul style="list-style-type: none"> • Communication is convincing and compelling • Tone, style and register are assuredly matched to purpose and audience • Extensive and ambitious vocabulary with sustained crafting of linguistic devices <p>Organisation</p> <ul style="list-style-type: none"> • Varied and inventive use of structural features • Writing is compelling, incorporating a range of convincing and complex ideas • Fluently linked paragraphs with seamlessly integrated discourse markers
	<p>Lower Level 4</p> <p>19–21 marks</p>	<p>Content</p> <ul style="list-style-type: none"> • Communication is convincing • Tone, style and register are convincingly matched to purpose and audience • Extensive vocabulary with conscious crafting of linguistic devices <p>Organisation</p> <ul style="list-style-type: none"> • Varied and effective structural features • Writing is highly engaging with a range of developed complex ideas • Consistently coherent use of paragraphs with integrated discourse markers

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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no2 which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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