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Mathematics A

Paper 2 (Calculator)

Foundation Tier

Friday 14 June 2013 – Morning

Time: 1 hour 45 minutes

Paper Reference

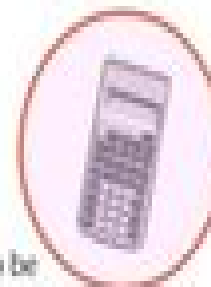
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Instructions

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Storme. Bel Ravenne Bel Ravenne, 2013-02-01 This is the story of two girls ordinary but with their own individual traits Every girl has to express her individuality some way and these two are no exception Maria is not afraid of growing up she's only concerned with how she'll make her mother proud of her achievements Born in a village in North Bedfordshire she has a dream of going to university and perhaps write a book but struggles with autism Storme Stephanie at 18 has her own struggle she's trying to break away from an upbringing in a North London estate an upbringing that no girl should ever experience Her guardian Ella is far from an ideal foster mother These two very different girls from very different backgrounds are brought together at university but with their unusual friendship comes great shock and tragedy Will a strong bond help Storme and Maria face a world that is often against them Storme is a revealing and honest dramatisation of what today's young people have to face In Bel Ravenne's debut novel the reader will be able to emphasise with both of the girls in some way and will be drawn quickly into this gripping story Storme is unique in its narrative style the story is split between a third person account of Stephanie's life and first person journal entries by Maria Will these two girls grow increasingly able to face realities in this difficult and demanding world Storme will appeal to female teen readers aged 13 18 Bel has mainly been inspired by Jacqueline Wilson

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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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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para

directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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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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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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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

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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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