Unit 1 Cause and Effect 1

The Environment and You

Sentence Structure: Simple and Compound Sentences

1 page 2 2. V 6. OBJ 10. S 3. OBJ 7. V 11. S 4. OBJ 8. OBJ 5. S 9. V

2 page 2 2. d 5. e 3. c 6. a 4. f

3 page 3
2. ; however,
3. , and
4. ; furthermore,
5. ; as a result, on; consequently,
6. Consequently, on As a result,

4 page 3

Some companies are going paperless. Employees send e-mails instead of letters.

 Telecommuting is becoming popular. Working from homes aves energy.

 Telecommuting means less travel, and less travel means less pollution.

A hundred years ago, no one recycled. Most of us do these days.

In every city there are recycling facilities, so it's easy to recycle.

Complex Sentences

1 page 4 2. DC 5. IC 8. DC 3. DC 6. IC 9. DC 4. IC 7. IC 10. IC

2 page 4 2. if 3. Since / Because 4. although

whereas
 because / since
 Whether

3 A page 5 2. a. C. Ba. 16. S. a. E. By C. 3. a. E. by C 6. a. C. b. E. 4. a. C. Ba. 163 B page 5 2. c 5. 0 34 Be 6. 10

Common Patterns with Nouns That Show Cause

1 page 6

4. 6

Another important cause of forest loss is the need for agricultural land for crops.

 The loss of forests in richer countries is the primary cause of large ecological footprints.

 The lifestyles in richer countries can be a root cause of ecological problems in less well-off countries.

Governments that focus on the obvious causes of deforestation may miss the underlying causes.

Economic and so cial policies are also leading causes of forest loss.

 Agriculture is probably the leading cause of deforestation, but it is not the only cause. OR Agriculture is probably not the only cause, but it is the leading cause of deforestation.

2 page 7

2. changes to the Earth's climate; natural changes

 climate change has increased; our use of resources has increased

 people should think about their actions; individuals' actions have consequences

making an estimate of one's footprint can be helpful; it can help in making changes

 many people support environmental organizations; environmental organizations can be effective

people participate in neighborhood cleanup days; people are more interested in protecting the emirronment

3 page 7 2. cause of 5. reason 3. reason 6. reason 4. factor 7. factor

4 page 8 Assess will way.

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Wolfgang Guggemos

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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 nitration of bromobenzene lab report 731 words cram - Apr 14 2022

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substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing lab 6 nitration of bromobenzene flashcards quizlet - Mar 14 2022

then actual is your actual findings yield actual theoretical x 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 experiment 3 electrophilic aromatic substitution reactions studocu - Jan 24 2023

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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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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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 experiment 11 electrophilic aromatic substitution nitration - Jan 12 2022

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 accommodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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lab report 15 nitration of bromobenzene brynn abbott amp katie muerer bea0006 uah ch 336 02 september 21 2022 abstract in this experiment the electrophilic aromatic substitution mechanism was used to obtain 4 nitrobromobenzene and 2 nitrobromobenzene recrystallization was used to purify 4 nitrobromobenzene

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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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experimental spectra reaction a fluorobenzene stock fluorobenzene $1\ h\ 1\ h\ 19\ f\ 19\ f\ 13\ c$ nmr fid for reference only sample $1\ h\ 1\ h\ 19\ f\ 19\ f\ 13\ c$ nmr eas nitration of fluorobenzene crude product not available for submission for credit

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group