

Guided Reading Activity 12-2

For use with textbook pages 294–300.

History and Government

Short Answer

DIRECTIONS: Use the information in your textbook to write a short answer to each of the following questions.

1. What physical features of Europe enabled its people to move easily beyond its borders to other parts of the world?

The closeness to the sea, large bodies of water around Europe, mountain passes

2. When did farming spread from Southwest Asia to southeastern Europe and then on to most of northern Europe?

By about 6000 BC

3. What linked the independent city-states of ancient Greece together?

Greek language and culture

4. What territories were included in the Roman Empire?

Europe, some of SW Asia, and North Africa

5. Why did western European armies fight in the Crusades?

To win Palestine, the birthplace of Christianity, from Muslim rule

6. Beginning in the 1400s, what European nations became active in developing sea-based trade with Africa, Asia, and the Americas?

England, France, and the Netherlands

7. By 1990, what important changes in the form of governments had occurred throughout much of Europe?

Democracy

Most European countries had constitutions that limited rulers' powers and guaranteed at least some political rights to citizens

8. What conditions enabled dictators like Benito Mussolini and Adolph Hitler to gain control of Italy and Germany, respectively?

Large number of unresolved political problems from WWI and a worldwide economic depression

9. Why did East Germany construct the Berlin Wall in 1961 during the Cold War?

To stop East Germans from fleeing to escape communism

10. What was the goal of the European Union, which was created in the 1990s?

A united Europe / goods, services, and workers could move freely among member countries

Guided Activity 19 4 Answer Key

Tracy Pearce

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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 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 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 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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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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aromatic substitution the electrophilic

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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