



CHROMATOGRAPHY PROBLEMS

- 1) A mixture of pentanal and pentan-1-ol were separating by column chromatography using a silica powder with cyclohexane as eluent. Which substance will have the shortest retention time? Explain your answer.

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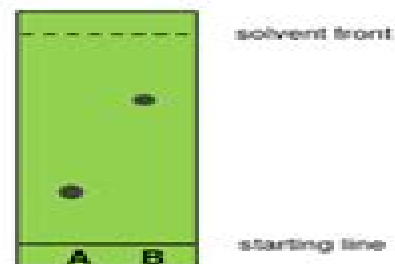
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- 2) The following TLC chromatogram was produced under a UV lamp.

- a) Calculate the R_f values for substances A and B.



- b) The plate was coated in silica powder and the solvent used was hexane. One substance was phenylamine and the other substance was tetrachloromethane. Which substance is likely to be which? Explain your answer.

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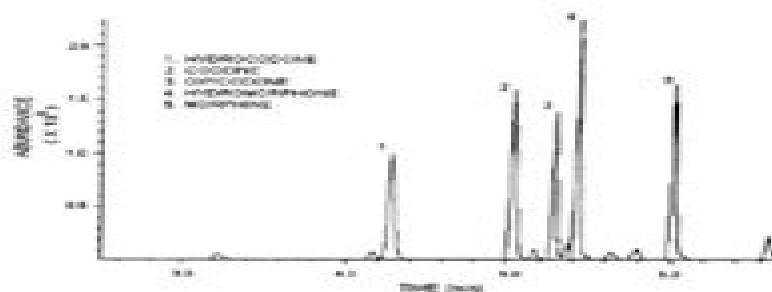
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- 3) A mixture of opiates found in a sample of urine was analysed by gas chromatography.

- a) Which opiate had the longest retention time?

- b) Explain why this substance had the longest retention time.



Chromatography Problems Chemsheets

Robert Lee Grob



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Table of Contents Chromatography Problems Chemsheets

1. Understanding the eBook Chromatography Problems Chemsheets
 - The Rise of Digital Reading Chromatography Problems Chemsheets
 - Advantages of eBooks Over Traditional Books
2. Identifying Chromatography Problems Chemsheets
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chromatography Problems Chemsheets
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chromatography Problems Chemsheets
 - Personalized Recommendations
 - Chromatography Problems Chemsheets User Reviews and Ratings
 - Chromatography Problems Chemsheets and Bestseller Lists

5. Accessing Chromatography Problems Chemsheets Free and Paid eBooks
 - Chromatography Problems Chemsheets Public Domain eBooks
 - Chromatography Problems Chemsheets eBook Subscription Services
 - Chromatography Problems Chemsheets Budget-Friendly Options
6. Navigating Chromatography Problems Chemsheets eBook Formats
 - ePub, PDF, MOBI, and More
 - Chromatography Problems Chemsheets Compatibility with Devices
 - Chromatography Problems Chemsheets Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chromatography Problems Chemsheets
 - Highlighting and Note-Taking Chromatography Problems Chemsheets
 - Interactive Elements Chromatography Problems Chemsheets
8. Staying Engaged with Chromatography Problems Chemsheets
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chromatography Problems Chemsheets
9. Balancing eBooks and Physical Books Chromatography Problems Chemsheets
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chromatography Problems Chemsheets
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chromatography Problems Chemsheets
 - Setting Reading Goals Chromatography Problems Chemsheets
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chromatography Problems Chemsheets
 - Fact-Checking eBook Content of Chromatography Problems Chemsheets
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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