

CH 317 Chromatography Practice Questions with answers

1. The following data were obtained by gas-liquid chromatography on a 40 cm packed column:

Compound	t_R (min)	W (at base) (min)
Unretained Compound	1.9	--
Methylcyclohexane	10.0	0.76
Methylcyclohexene	10.9	0.82
Toluene	13.4	1.06

Calculate

(a) An average number of plates from the data.

$$N_A = 16(10.0/0.76)^2 = 2770$$

$$N_B = 16(10.9/0.82)^2 = 2827$$

$$N_C = 16(13.4/1.06)^2 = 2557$$

$$N_{\text{AVG}} = (2770 + 2827 + 2557) / 3 = 2718 = 2.7 \times 10^3 \text{ plates}$$

(b) An average plate height for the column.

$$L = NH$$

$$H = 40 \text{ cm} / 2.7 \times 10^3 \text{ plates} = 0.0148 \text{ cm/plate} = 0.015 \text{ cm/plate}$$

(c) The resolution for methylcyclohexene and methylcyclohexane.

$$R = 2(10.9 - 10.0) / (0.82 + 0.76) = 1.139 = 1.14$$

(d) The resolution for methylcyclohexene and toluene.

$$R = 2(13.4 - 10.9) / (1.06 + 0.82) = 2.66$$

(e) The resolution for methylcyclohexane and toluene.

$$R = 2(13.4 - 10.0) / (1.06 + 0.76) = 3.74$$

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Institute of Brewing (Great Britain), Institute of Brewing (Great Britain).

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Instrumental Methods of Chemical Analysis Dr. B. K. Sharma, 1981

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William Clarke, Mark Marzinko, 2020-06-11 Contemporary Practice in Clinical Chemistry Fourth Edition provides a clear and concise overview of important topics in the field. This new edition is useful for students, residents, and fellows in clinical chemistry and pathology, presenting an introduction and overview of the field to assist readers as they review and prepare for board certification examinations. For new medical technologists, the book provides context for understanding the clinical utility of tests that they perform or use in other areas in the clinical laboratory. For experienced laboratorians, this revision continues to provide an opportunity for exposure to more recent trends and developments in clinical chemistry. Includes enhanced illustration and new and revised color figures. Provides improved self-assessment questions and end-of-chapter assessment questions.

Chromatographic Systems John Q. Walker, Minor T. Jackson, James B. Maynard, 1977-08-28

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A Complete Preparation for the M.C.A.T. James L. Flowers, 1991

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Singh, 2020-06-11 *Animal Biotechnology: Models in Discovery and Translation* Second Edition provides a helpful guide to anyone seeking a thorough review of animal biotechnology and its application to human disease and welfare. This updated edition covers vital fundamentals, including animal cell cultures, genome sequencing, analysis, epigenetics, and animal models, gene expression, and ethics and safety concerns, along with in-depth examples of implications for human health and prospects for the future. New chapters cover animal biotechnology as applied to various disease types and research areas, including in

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Table of Contents Chromatography Questions And Answers

1. Understanding the eBook Chromatography Questions And Answers
 - The Rise of Digital Reading Chromatography Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chromatography Questions And Answers
 - 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 Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chromatography Questions And Answers
 - Personalized Recommendations
 - Chromatography Questions And Answers User Reviews and Ratings
 - Chromatography Questions And Answers and Bestseller Lists
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 - Chromatography Questions And Answers eBook Subscription Services
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 - Chromatography Questions And Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Chromatography Questions And Answers
 - Interactive Elements Chromatography Questions And Answers
8. Staying Engaged with Chromatography Questions And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chromatography Questions And Answers
9. Balancing eBooks and Physical Books Chromatography Questions And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chromatography Questions And Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chromatography Questions And Answers
 - Setting Reading Goals Chromatography Questions And Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chromatography Questions And Answers
 - Fact-Checking eBook Content of Chromatography Questions And Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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