



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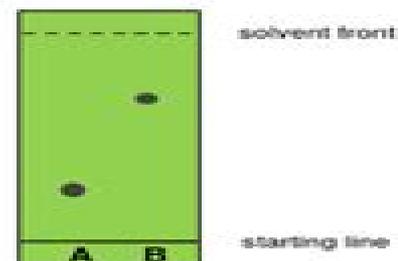
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- 2) The following TLC chromatogram was produced under a UV lamp.

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

- a) Which opiate had the longest retention time?

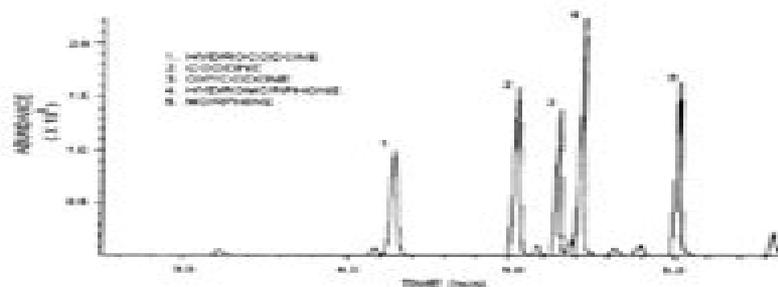
- b) Explain why this substance had the longest retention time.

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# Chromatography Problems Chemsheets

**Scott C. Dulebohn**



## **Chromatography Problems Chemsheets:**

## **Chromatography Problems Chemsheets** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Chromatography Problems Chemsheets**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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