



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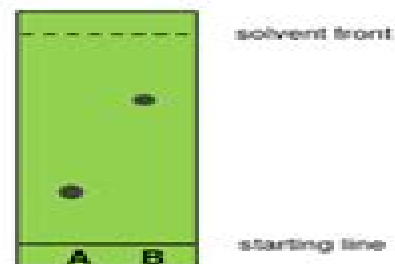
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- 2) The following TLC chromatogram was produced under a UV lamp.

a) Calculate the R<sub>f</sub> 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?

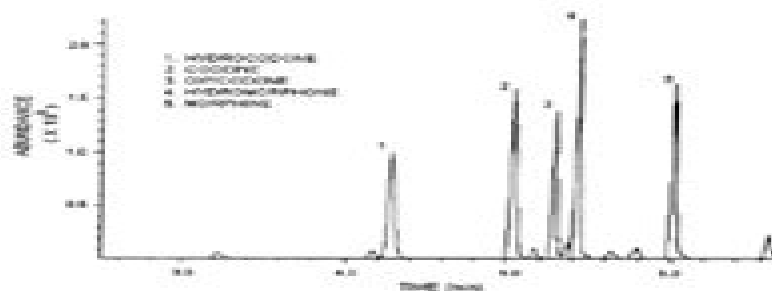
b) Explain why this substance had the longest retention time.

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# Chromatography Problems Chemsheets

**BM King**



## **Chromatography Problems Chemsheets:**

## Reviewing **Chromatography Problems Chemsheets**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Chromatography Problems Chemsheets**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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