



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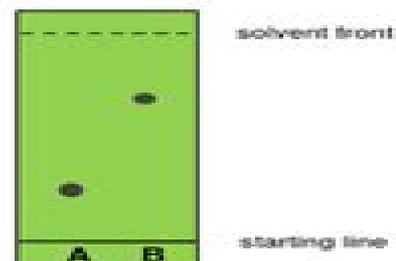
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- 2) The following TLC chromatogram was produced under a UV lamp.

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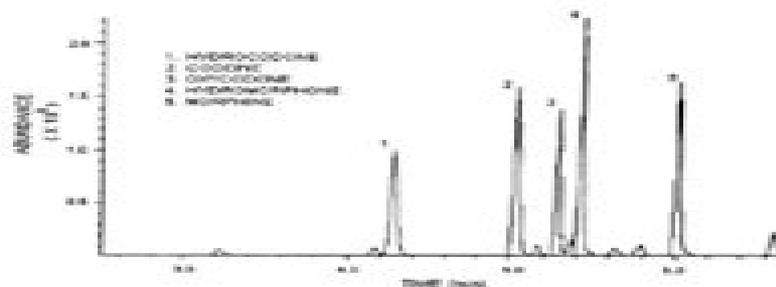
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- 3) A mixture of opiates found in a sample of urine was analysed by gas chromatography.

- a) Which opiate had the longest retention time?

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



Chromatography Problems Chemsheets

Michael Brown



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Troubleshooting Guide ,1983 **Environmental Problem Solving Using Gas and Liquid Chromatography**
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Russell Birch Poe,1993 **Some general Problems of paper chromatography** ,1962 **Some Problems Encountered
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to Specific Problems** Marvin Lee Owens,1951 *Some Problems Encountered in High Resolution Gas Chromatography*
CA. Cramers,1967 More Practical Problem Solving in HPLC Stavros Kromidas,2005-01-24 A unique approach to solving
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new practical examples for optimization trouble shooting and instrument performance given in this sequel The author
provides guidance for selecting and evaluating methods intstruments and columns practical help with everyday trouble
shooting advice for optimizing separations always explaining the reason why In each case the problem the solution and the
conclusions are presented over a maximum of 4 pages and in addition the book contains manufacturers addresses references
data tables and checklists **Chromatographic Separations** Peter A. Sewell,Brian Clarke,1988-03-04 This new addition to
the series introduces the reader to the techniques of chromatography Enough of the underlying theory is explained to make
the techniques understandable to the beginner The text covers methods and practice which are common to all forms of
chromatography The first three sections give the underlying principles of chromatographic separation and discuss those
factors which affect the quality of the results The fourth section covers the use of chromatography in qualitative and
quantitative analysis The final section deals with the practical aspects of classical liquid chromatography Contains many
examples and problems **Application of Chromatography to Problems in the Identification and Determination of
Drugs of Dependence** W. D. C. Wilson,1970 Chromatographic Systems John Q. Walker,1979-01-01 **Some General
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