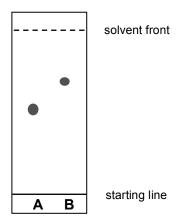


CHROMATOGRAPHY (A)

Propylamine and triethylamine were analysed by thin layer chromatography. A silica plate was used with hexane as solvent. The resulting chromatogram is shown.



a Draw the skeletal structure of each amine.

propylamine

triethylamine

b	Give two ways in which the spots of these colourless substances could be identified
	1
	2
С	Calculate the R _f value of spots A and B .
d	State which substance is spot A . Explain your answer.
е	A second experiment was carried out. Before putting samples on the plate, some hydrochloric acid was added to each amine. Predict how the $R_{\rm f}$ values for the acidified amine samples will change from the original experiment.

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