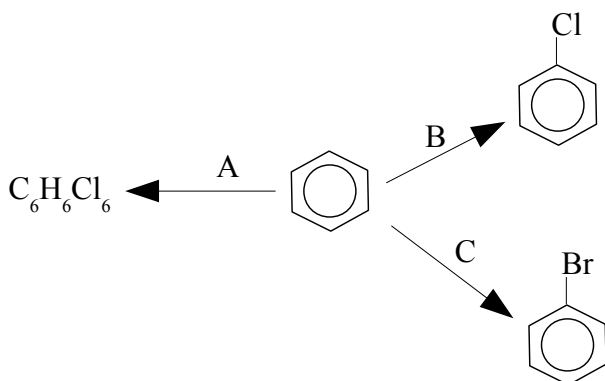


Chemguide – questions

ARENES: HALOGENATION

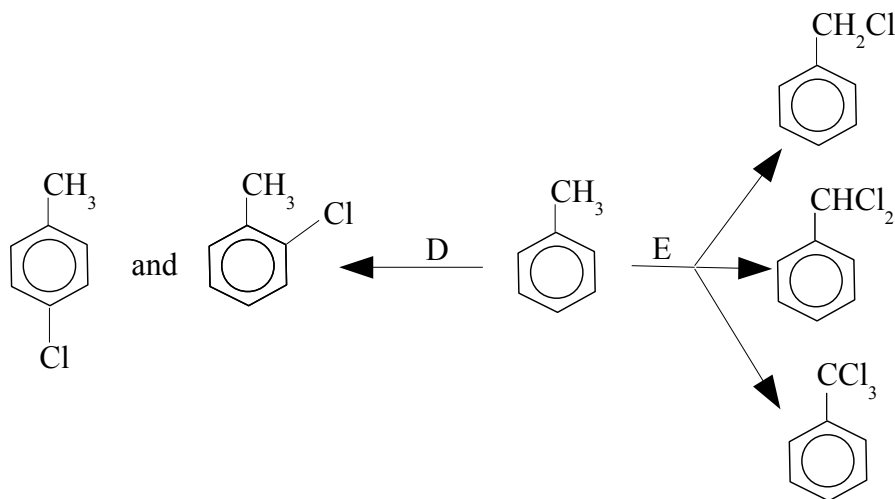
1. a) Give the necessary reagents and conditions for each of the following changes:



b) The product from reaction A shows geometric isomerism even though it doesn't contain any carbon-carbon double bonds. Explain briefly why.

c) Name the product from reaction B.

2. a) Give the necessary reagents and conditions for each of the following changes:



b) Name the products in reaction D.

c) In reaction E you normally get a mixture of products, although you can favour the top one or the bottom one by varying the conditions. How would you aim to get mainly the bottom one?

d) Name the three products of reaction E.