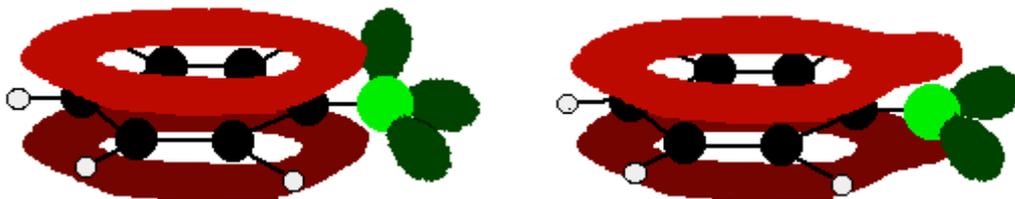


Chemguide – questions

ARYL HALIDES: INTRODUCTION

1. The Chemguide page has these two diagrams relating to chlorobenzene.



- a) Explain what is happening in the diagrams.
- b) How does the bonding shown in these diagrams affect the bond strength of the carbon-chlorine bond?
- c) How does the bonding affect the polarity of the molecule?
2. a) What is the major intermolecular force present in liquid aryl halides such as chlorobenzene, bromobenzene and iodobenzene?
- b) Explain why the boiling points increase from chlorobenzene to bromobenzene to iodobenzene.
- c) Why are all these aryl halides insoluble in water?