Marks • Show clearly the reagents you would use to carry out the following chemical 8 conversion. Two steps are required. Give the structure of the intermediate compound. || O How can IR spectroscopy distinguish between the starting material, the intermediate and the product? How can ¹³C NMR spectroscopy distinguish between the starting material, the intermediate and the product?

Marks • Show clearly the reagents you would use to carry out the following chemical 5 conversion. Two steps are required. Give the structure of the intermediate compound. Br ∠Br How could you distinguish between the starting material and the product by ¹³C NMR spectroscopy?

