

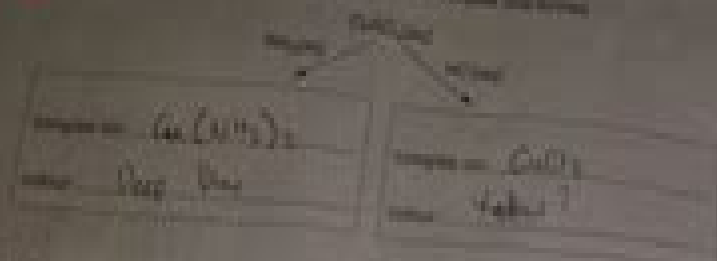
Question 1

Answer all the questions

The reaction is about the synthesis of copper complexes and ligands.

(a) The reaction shows the reaction of copper(II) sulfate with ligand.

In the boxes, write the formula and name of the ligand and product.



(b) Cu^{2+} ions form a complex ion B with two ethylenediamine ligands and two water molecules. The ethylenediamine ion is a bidentate ligand.

The skeletal formula of the ethylenediamine ion is shown in Fig. 1.1 below.



Fig. 1.1

(c) What is meant by the term bidentate ligand?

A ligand that has two donor atoms, each of which can form a coordinate bond with the central metal ion.

(d) The complex ion A is shown in Fig. 1.2 below.


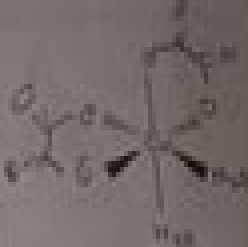
The structure of one of the ethylenediamine ligands is shown below. The charge has been omitted.



Complex A

Complete the 3D diagram of the other two ethylenediamine ligands of A. You do not need to include any charges.

Indicate with ticks whether the ethylenediamine ligands are cis, trans, optical or a combination of these types.

Diagram														
Type	<table><tr><td>cis</td><td></td></tr><tr><td>trans</td><td>✓</td></tr><tr><td>optical</td><td></td></tr></table>	cis		trans	✓	optical		<table><tr><td>cis</td><td>✓</td></tr><tr><td>trans</td><td></td></tr><tr><td>optical</td><td>✓</td></tr></table>	cis	✓	trans		optical	✓
cis														
trans	✓													
optical														
cis	✓													
trans														
optical	✓													

(e) What is the empirical formula, including the charge, of the complex ion A?

$[Cu(NH_2)_2(en)_2]^{2+}$

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Camilla Rothe



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