# A-Level Chemistry - Year 2

# OCR Chemistry A - Paper 1 June - 2019

Question - 18

18 This question is about reactions of ions and compounds of transition elements.

(a) A student carries out two experiments on a solution containing [Cr(H,U),[P](aq).

### Experiment 1

The student adds an excess of aqueous ammonia to a solution containing [Cr(H\_O)\_]<sup>2\*</sup>(ag until a purple solution is formed.

### Experiment 2

The student carries out the following reaction sequence.

Step 1 NaOH(ac) is added slowly to a solution containing (Cr(H<sub>2</sub>O)<sub>2</sub>)<sup>2\*</sup>(ac) in a boiling tube.

A gray-green precipitate forms.

Step 2 An excess of NaOH(ac) is added to the boiling tube.

The precipitate dissolves and a green solution forms containing a 6 coordinate complex ion.

- Step 3 H<sub>2</sub>O<sub>2</sub> is added to the mixture and the boling tube is heated. A yellow solution forms.
- Step 4 The solution in the boiling tube is acidified the solution now contains Cx,O,<sup>2</sup> (se).

(b) What is the formula of the complex ion in the purple solution that forms in Experiment 17

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Tuesday 4 June 2019 - Afternoon

A Level Chemistry A

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