

- 5 Carbonyl chloride, COCl_2 , is a colourless gas. It is made by the following reaction.



- (a) When the pressure on the equilibrium mixture is decreased, the position of equilibrium moves to left.

(i) How does the concentration of each of the three chemicals change?

_____ [2]

(ii) Explain why the position of equilibrium moves to left.

_____ [2]

- (b) Using the information given with the equation, is the forward reaction exothermic or endothermic? Give a reason for your choice.

_____ [2]

- (c) Carbonyl chloride reacts with water to form two acidic compounds. Suggest which acidic compounds are formed.

1. _____ [2]
2. _____

- (d) The structural formula of carbonyl chloride is given below.



Draw a diagram that shows the arrangement of the valency electrons in one molecule of this covalent compound.

Use x for an electron from a chlorine atom.

Use o for an electron from a carbon atom.

Use • for an electron from an oxygen atom.

[4]
[Total: 12]

0620 31 M J 12

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