

- 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]

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JL Elias



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United States Civil Aircraft Register, 1977 *Scientific and Technical Aerospace Reports*, 1973 Official Army National Guard Register United States. National Guard Bureau, 1979 An alphabetical listing of all officers and warrant officers of the Army National Guard currently serving in an active status or assigned to the Inactive National Guard

Ton-Up Lancs Norman Franks, 2015-09-19 An updated and expanded photographic history of the famed military aircraft and the men who flew them Aviation historian Norman Franks updates his classic book The Lancaster with new information and photos The Avro Lancaster was a four engine heavy bomber that played a crucial role in World War II and this illustrated volume records the history of thirty five of them supported by stories from aircrew members The most famous of the bombers is Queenie W5868 the only one of these Lancasters that survives now in the Bomber Command Hall at the Royal Air Force Museum in London Ton Up Lancs delves into some of the controversies surrounding Queenie and other Lancasters and also includes detailed listings of each raid these thirty five Lancasters flew during from 1942 through 1945 together with the names of the pilot and crew that took them on sorties all over Hitler's Third Reich and Northern Italy on support missions before and after D Day in June 1944 and attacks on V1 rocket launch sites situated in Northern France The book also offers a view from one of the Lancaster's former skippers on what it was like to fly a bomber tour of operations in Bomber Command

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