



- 1.1 functional (group)
- 1.2 carbonyl
- 1.3 activation
- 1.4 electrolytic
- 1.5 anode

[5 x 1 =]

- 2.1 The eutrophication of fresh water is caused by high concentrations of nitrate ions from highly soluble nitrate salts in fertilizers; the resulting algal blooms that thrive on the nitrates lower the water's oxygen concentration.
- 2.2 An electrolytic cell is an electrochemical cell that converts electrical energy into chemical energy.
- 2.3 The Ostwald, and Contact processes are used in the chemical industry to produce important industrial acids.
- 2.4 Strong reducing agents release electrons easily and improve the reducing ability of chemical species that receive the electrons they release.
- 2.5 A bag of fertiliser marked 2 : 3 : 2 (28) tells us that nitrogen, phosphorus and potassium are present in the ratio of 8% : 12% : 8% of the total mass of fertiliser in the bag.

[5 x 2 =]

- 3.1 C
- 3.2 B
- 3.3 A
- 3.4 C
- 3.5 D

[5 x 2 =]

- 4.1 4.1.1 F
- 4.1.2 B
- 4.1.3 A

Physical Science Paper 2 2013 Memorandum

Christopher Chuck



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