

Aims

You have learned how to construct Born-Haber cycles and calculate lattice enthalpies from experimental data. In this activity you have the opportunity to apply your knowledge to some more challenging examples. You will need to have studied Topics 12.1 and 12.2 before attempting these problems.

Questions

- 1 a) Write an equation for the formation of aluminium oxide.
- b) Using the enthalpy change values in the table below, construct a Born-Haber cycle and calculate the lattice enthalpy of aluminium oxide.

Change	Enthalpy change	Value / kJ mol^{-1}
$2\text{Al}(s) + \frac{3}{2}\text{O}_2(g) \rightarrow \text{Al}_2\text{O}_3(s)$	Heat of formation	-1675.7
$\text{Al}(s) \rightarrow \text{Al}(g)$	Heat of atomisation	+324.3
$\text{Al}(g) \rightarrow \text{Al}^+(g)$	First ionisation energy	+578
$\text{Al}^+(g) \rightarrow \text{Al}^{2+}(g)$	Second ionisation energy	+1817
$\text{Al}^{2+}(g) \rightarrow \text{Al}^{3+}(g)$	Third ionisation energy	+2745
$\frac{1}{2}\text{O}_2(g) \rightarrow \text{O}(g)$	Heat of atomisation	+249.2
$\text{O}(g) \rightarrow \text{O}^-(g)$	First electron affinity	-141.4
$\text{O}^-(g) \rightarrow \text{O}^{2-}(g)$	Second electron affinity	+790.8

- c) Comment on the value you have calculated.
- 2 The standard enthalpy change of the formation of $\text{MgO} = -602\text{kJ mol}^{-1}$.

Calculate the standard enthalpy change for the reaction



Aqa Chemistry A2 Stretch And Challenge Answers

Margaret Cross



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Aqa A2 Chemistry Student Unit Guide Margaret Cross,2010-02-26 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers There are three sections to each guide Introduction includes advice on how to use the guide an explanation of the skills being tested by the assessment objectives an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination questions Content Guidance provides an examiner's overview of the module's key terms and concepts and identifies opportunities to exhibit the skills required by the unit It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner

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