Bond energies

Answers

GCSE science calculations

This topic online

Q	Answer	Marks
1	**a)** +257 kJ/mol **b)** endothermic	2
2	-11 kJ/mol	3
3	**a)** +229 kJ/mol **b)** open: The energy change is positive. More energy is needed to break the bonds in the reactants than is released when the bonds in the products are made.	3
4	-122 kJ/mol	3
5	**a)** -103 kJ/mol **b)** 4.12×10^4 J	4
6	-1292 kJ/mol	4
7	566 kJ/mol	3
8	945 kJ/mol	3
9	612 kJ/mol	4
10	20 MJ	5
11	**a)** -482 kJ/mol **b)** 120.5 kJ/g **c)** 2.4	5
12	20 600 J	5

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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