

Bulk & Surface Properties of Matter

Question Paper

Level	Edexcel
Subject	Chemistry
Exam Board	GCSE(9-1)
Topic	Separate Chemistry 2
Sub Topic	Bulk & Surface Properties of Matter (inc Nanoparticles)
Booklet	Question Paper

Time Allowed: 12 minutes

Score: /10

Percentage: /100

(b) The use of nanoparticles has increased in recent years.

(i) The length of one side of a cube of silver is 2 cm as shown in Figure 7.

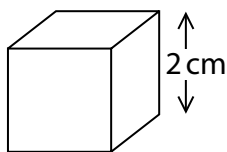


Figure 7

Calculate the surface area to volume ratio of this cube of silver.

(3)

surface area to volume ratio =

(ii) Suggest an explanation of why a given mass of silver is more effective as a catalyst when used as nanoparticles rather than in a powder form.

(3)

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(Total for Question 1 = 10 marks)