

GCSE Chemistry A (Gateway Science)

J248/01 Chemistry A C1-C3 and C7 (Foundation Tier)

Question Set 10

1 (a) Nanoparticles are used as catalysts.

Describe a property of nanoparticles that make them useful as catalysts.

[2]

(b) A student is synthesising a new titanium dioxide (TiO₂) nanoparticle for use as a catalyst.

One TiO_2 nanoparticle has a mass of 5.0×10^{-3} mg.

Calculate how many TiO₂ nanoparticles are in 80.0 mg of TiO₂.

[2]

Total Marks for Question Set 10: 4



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