

Marks
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- Explain why electrons in atoms occupy discrete energy levels rather than being able to possess any possible energy below that required for ionisation.

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- A certain pigment is found to have an electronic excitation energy of 4.97×10^{-19} J. What is the wavelength at which this molecule will absorb radiation?

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ANSWER:

What colour do you expect this pigment to be? Explain your answer.

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