Counting Replacement Sites in Carbon Models

Scoring guide · one credit per question · review written work against each rubric

Counting Replacement Sites in Carbon Models

Question 1

Choice (1)

A already forms four bonds to other carbon atoms.

Question 2

The two ends take three each, giving six. The three inside carbons take two each, giving six more.

Question 3

P gives three: an end, a carbon next to an end, or the center. Q gives one because the four outer carbons are equivalent and the center has no H to replace.

Question 4

Draw a continuous chain of five carbon atoms with a single bond from either an inside carbon next to an end or the center carbon to Cl. Accept the reverse orientation and diagrams that include the other H atoms.