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Reaction of chlorobenzene with isopropyl chloride in the presence of a Lewis acid catalyst forms the product mixtures indicated at the reaction time and temperature shown. Which statement(s) is/are true regarding this reaction?

5°C, 1 hour; ortho/meta/para = 63/5/32 25°C, 7 days; ortho/meta/para = 63/5/32

- C (A) The activation energy for formation of the meta product is higher than that for formation of the ortho and para products.
- C (B) The meta isomer is the most stable isomer. C (C) The para isomer is the most stable isomer.
- C (D) The ortho isomer has the highest activation energy for formation. C (E) Both A and B C (F) Both C and D

VIDEO SOLUTION

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