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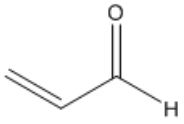
Which statement correctly describes the UV absorption spectrum of acrolein?



- **(A)** The longest wavelength absorption is due to the π_2 to π_3 transition but the most intense absorption above 200 nm is due to n to π_3.
- **(B)** The longest wavelength absorption is due to the n to π_3 transition but the most intense absorption above 200 nm is due to π_2 to π_3.
- **(C)** The longest wavelength absorption is due to the π_1 to π_4 transition but the most intense absorption above 200 nm is due to n to π_3.
- **(D)** The longest wavelength absorption is due to the n to π_3 transition but the most intense absorption above 200 nm is due to π_1 to π_4.
- **(E)** The longest wavelength absorption is due to the π_3 to π_4 transition but the most intense absorption above 200 nm is due to π_2 to π_3.
- **(F)** The longest wavelength absorption is due to the π_2 to π_3 transition but the most intense absorption above 200 nm is due to π_3 to π_4.

VIDEO SOLUTION

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