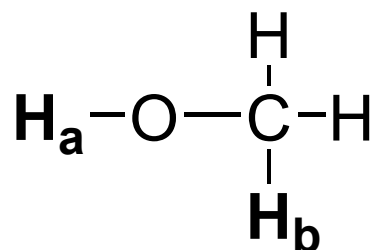


What is the most acidic proton in methanol, CH₃OH (H_a or H_b)? Explain briefly (CB = Conjugate Base).



A) **H_b is more acidic.** Because carbon is less electronegative, CB-b is more stable than CB-a.

B) **H_b is more acidic.** Because carbon is less electronegative, H_a is more stable than H_b.

C) **H_a is more acidic.** Because oxygen is more electronegative, CB-a is more stable than CB-b.

D) **H_a is more acidic.** Because oxygen is more electronegative, H_a is more stable than H_b.

E) **H_a is more acidic.** Because oxygen is more electronegative, H_b is more stable than H_a.