Answer on Question #80616 - Chemistry - General Chemistry

Question:

CH3OH + KF \rightarrow KOH + CH3F is a first order reaction for all of the reactants, with a rate constant of 0.0123 I/Ms. Find the instantaneous rate for this reaction if the initial concentration of CH3OH is 0.59 M, and the initial concentration of KF is 1.22 M.

A. 0.56 1/Ms

B. 0.56 1/M2s

C. 0.0089 M/s

D. 0.0089 M2/s

E. None of the Above

Solution:

V = K * [CH3OH]¹ * [KF]¹;

V= 0.0123 * 0.59 * 1.22 = 0.0089 M/s;

So, correct answer – C (0.0089 M/s).

Answer: C. 0.0089 M/s.

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