

Chemistry

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(Chapter 10) (Haloalkanes and Haloarenes) (Intext Questions)
(Class 12)

Question 10.8:

In the following pairs of halogen compounds, which compound undergoes faster S_N1 reaction?



Answer 10.8:



S_N1 reaction proceeds via the formation of carbocation. The alkyl halide (I) is 3° while (II) is 2° . Therefore, (I) forms 3° carbocation while (II) forms 2° carbocation. Greater the stability of the carbocation, faster is the rate of S_N1 reaction. Since 3° carbocation is more stable than 2° carbocation, (I), i.e. 2-chloro-2-methylpropane, undergoes faster S_N1 reaction than (II) i.e., 3-chloropentane.

(ii)



The alkyl halide (I) is 2° while (II) is 1° . 2° carbocation is more stable than 1° carbocation. Therefore, (I), 2-chloroheptane, undergoes faster S_N1 reaction than (II), 1-chloroheptane.

Question 10.9:

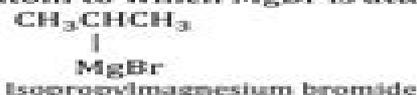
Identify A, B, C, D, E, R and R¹ in the following:



Answer 10.9:



Since D of D₂O gets attached to the carbon atom to which MgBr is attached, C is



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