

CHEM220 Organic Chemistry 2020
Tutorial 3

PART A: MULTIPLE CHOICE QUESTIONS

1. Which of the following alkyl halides should react the fastest in an S_N2 reaction?
A) 1-chloropropane
B) 1-bromopropane
C) 1-iodopropane
D) 1-iodopropane (Leaving group ability and size wins here, hence D is the correct answer. Remember for halogens leaving group ability increases as you go down the group)
Reverse
2. Which of the following S_N2 reactions is the fastest?
A) $\text{CH}_3\text{CHBrCH}_3 + \text{HO}^- \rightarrow \text{CH}_3\text{CH(OH)CH}_3 + \text{Br}^-$
B) $\text{CH}_3\text{CH}_2\text{CH}_2\text{I} + \text{HO}^- \rightarrow \text{CH}_3\text{CH}_2\text{CH}_2\text{OH} + \text{I}^-$ (Again leaving group ability as in Q1)
C) $\text{CH}_3\text{CHBrCH}_3 + \text{HO}^- \rightarrow \text{CH}_3\text{CH(OH)CH}_3 + \text{I}^-$
D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br} + \text{HO}^- \rightarrow \text{CH}_3\text{CH}_2\text{CH}_2\text{OH} + \text{Br}^-$
E) $\text{CH}_3\text{CH}_2\text{CH}_2\text{I} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{CH}_2\text{CH}_2\text{OH} + \text{HI}$
3. Which of the following compounds will undergo an S_N2 reaction most readily?
A) $(\text{CH}_3)_3\text{COCH}_2\text{I}$
B) $(\text{CH}_3)_3\text{CCl}$
C) $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{Cl}$
D) $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{I}$ (Primary alkyl halide with a good leaving group will react the fastest, hence this answer)
4. What product results from the S_N2 reaction between (*R*)-2-chloropentane and hydroxide?
A) (*R*)-2-pentanol
B) (*S*)-2-pentanol (Inversion of stereochemistry occurs with S_N2)
C) racemic pentanol
D) 1-pentanol
5. Which of the following is the best nucleophile in water?
A) I^- (I⁻ is bigger and hence cannot be solvated properly by water, thus a better a nucleophile)
B) F^-
C) CH_3OCH_3
D) Cl^-

Chem 220 Uw Lab Manual

Camilla Rothe



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