AP Chemistry: Organic Chemistry Multiple Choice

77. Which of the following compounds exhibits optical isomerism?

 $\begin{array}{c|c} \text{CH}_3 \\ \text{CH}_3\text{-CH}_2\text{-C-CH}_3 \\ \text{H} \end{array}$

(B) H H-C-Cl H

(C)

CH₃
C
C-H
C-C-H
H-C-C-H

(D) H Cl Br H Cl CH₃-C-CH₂-CH₃ H

- 43. Which of the following pairs of compounds are isomers?
- (A) $CH_3 CH_2 CH_2 CH_3$ and $CH_3 CH CH_3$ (B)

 CH_3-O-CH_3 and CH_3-C-CH_3

(C) CH_3-OH and CH_3-CH_2-OH (D)

 CH_4 and $\mathrm{CH}_2 = \mathrm{CH}_2$

(E) $CH_3 - CH - CH_3$ and $CH_3 - CH = CH_2$ CH_3 CH_3

$$_{\mathrm{CH}_{3}-}$$
 $_{\mathrm{C}}^{\mathrm{O}}$ $_{\mathrm{CH}_{2}-}$ $_{\mathrm{CH}_{3}}^{\mathrm{O}}$

- 29. The organic compound represented above is an example of...
- (A) an organic acid (B) an alcohol (C) an ether (D) an aldehyde (E) a ketone

Which of the following structural formulas represents an isomer of the compound that has the structural formula represented above?