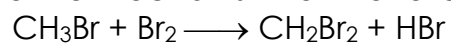


Quiz (Substitution Reaction)

1. Draw the structural formula and write IUPAC names for ALL possible mono-substitution and di-substitution products if propane reacts with bromine under sunlight.

2. Write the mechanism for the following equation:



Suggested Answer

1. $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$ $\text{CH}_3\text{CHBrCH}_3$
1-bromopropane 2-bromopropane
- $\text{CH}_3\text{CHBrCH}_2\text{Br}$ $\text{CH}_3\text{CBr}_2\text{CH}_3$ $\text{CH}_2\text{BrCH}_2\text{CH}_2\text{Br}$
1,2-dibromopropane 2,2-dibromopropane 1,3-dibromopropane
- $\text{CH}_3\text{CH}_2\text{CHBr}_2$
1,1-dibromopropane

