Attachment—Peroxidizable Organic Moieties

1. Ethers and acetals with α-hydrogen

\[
\begin{array}{c}
\text{H} \\
\text{-- C - O - C <} \\
\end{array}
\]

2. Alkenes with allylic hydrogen

\[
\begin{array}{c}
\text{H} \\
\text{> C = C - C <} \\
\end{array}
\]

3. Chloroalkenes, fluoroalkenes

\[
\begin{array}{c}
\text{X} \\
\text{> C = C <} \\
\end{array}
\]

4. Vinyl halides, esters, ethers

\[
\begin{array}{c}
\text{H} \\
\text{> C = C <} \\
\text{H} \\
\end{array}
\]

5. Dienes

\[
\begin{array}{c}
\text{> C = C - C = C <} \\
\end{array}
\]

6. Vinyl alkynes with α-hydrogen

\[
\begin{array}{c}
\text{H} \\
\text{> C = C - C <} \\
\end{array}
\]

7. Alkylalkynes with α-hydrogen

\[
\begin{array}{c}
\text{H} \\
\text{> C -- C - H} \\
\end{array}
\]

8. Alkylalarenes with tertiary α-hydrogen

\[
\begin{array}{c}
\text{H} \\
\text{R} \\
\text{> C -- AR} \\
\text{R} \\
\end{array}
\]

9. Alkanes and cycloalkanes with tertiary hydrogen

\[
\begin{array}{c}
\text{R} \\
\text{R -- C -- H} \\
\text{R} \\
\end{array}
\]

10. Acrylates, methacrylates

\[
\begin{array}{c}
\text{O} \\
\text{> C = C - C} \\
\text{O - R} \\
\end{array}
\]

11. Secondary Alcohols

\[
\begin{array}{c}
\text{H} \\
\text{> C - O - H} \\
\end{array}
\]

12. Ketones with α-hydrogen

\[
\begin{array}{c}
\text{O} \\
\text{H} \\
\text{> C = O - C <} \\
\end{array}
\]

13. Aldehydes

\[
\begin{array}{c}
\text{H} \\
\text{> C - O} \\
\end{array}
\]

14. Ureas, amides and tactams with α-hydrogen on a carbon attached to nitrogen

\[
\begin{array}{c}
\text{O} \\
\text{H} \\
\text{H} \\
\text{> C - N - C <} \\
\end{array}
\]

Numbered from ‘Most’ to ‘Least’ likely to form dangerous peroxides