An electrophilic substitution reaction is a substitution reaction in which it is an electrophile that replaces a ligand in an organic compound.

\[ R - A + B \rightarrow R - B + A \]

**eg. 1:**

\[
\begin{array}{c}
\text{net reaction:} \\
\text{catalyst: } \text{AlCl}_3
\end{array}
\]

**eg. 2:**

\[
\begin{array}{c}
\text{net reaction:} \\
\text{catalyst: } \text{H}_2\text{SO}_4
\end{array}
\]

see also nucleophilic substitution, electrophilic aromatic substitution

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**Contributors**

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