An electrophilic aromatic substitution is an electrophilic substitution in which it is one or more hydrogen atoms on an aromatic ring that are replaced by the electrophile.

**eg. 1:**

\[
\begin{align*}
\text{net reaction:} & \quad \text{catalyst: AICl}_3 \\
 & \quad 
\end{align*}
\]

**eg. 2:**

\[
\begin{align*}
\text{net reaction:} & \quad \text{electrophile} \\
 & \quad 
\end{align*}
\]

see also arenium ion, Friedel-Crafts alkylation, Friedel-Crafts acylation, nucleophilic aromatic substitution

---

**Contributors**

- Gamini Gunawardena from the OChemPal site (Utah Valley University)