The resonance-stabilized carbocation intermediate of electrophilic aromatic substitution of arenes is called the arenium ion.

eg:

$$\text{C}_{6}\text{H}_{5}^+ + \text{AlCl}_3 \rightleftharpoons \text{C}_{6}\text{H}_{5}^+\text{AlCl}_3$$

$$\text{C}_{6}\text{H}_{5}^+\text{AlCl}_3 \rightleftharpoons \text{C}_{6}\text{H}_{5}^+ + \text{AlCl}_3$$

**mechanism:**

**Step 1:**

**Step 2:**

see also Friedel-Crafts alkylation, Friedel-Crafts acylation
Contributors

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