The following cation, which is a strong electrophile, is called the nitronium ion.

\[
\begin{array}{c}
\vdots \\
\vdots \\
\end{array}
\begin{array}{c}
\text{N} \\
\text{O} \\
\text{O} \\
\end{array}
\]

Salts of the nitronium ion are available commercially.

eg:

\[\text{NO}_2^+ \cdot \text{BF}_4^-\]

The nitronium ion can be generated by the reaction of conc. nitric acid with conc. sulfuric acid.

see also nitro group

Contributors and Attributions

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