A diazonium ion is an ion that has the following general structural formula.

\[
\text{R} + \text{N}≡\text{N}
\]

- \( R = \text{alkyl, aryl} \)

eg:

\[
\text{CH}_3 - \text{N}≡\text{N}
\]

\[
\text{phenyl} - \text{N}≡\text{N}
\]

The \(+\text{N}≡\text{N}:\) group in a diazonium ion is called the diazonio group.

\[
\text{CH}_3 + \text{N}≡\text{N}
\]

\( \text{diazonio group} \)

see also diazomethane

---

Contributors

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