A radical cation is a positively charged species that has an atom bearing an unpaired electron.

eg:

\[ \ce{CH3\cdot OH} \quad \ce{CH3CH2NH2+} \]

Some radical cations are resonance stabilized.

eg:

Radical cations are common intermediates in reactions occurring in the mass spectrometer.

see also radical anion

Contributors

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