A halonium ion is a species in which there is a halogen atom that possesses an octet of electrons but bears a formal charge of +1. Halonium ions are intermediates in the reaction of alkenes with halogens.

eg:

$$\text{H}_2\text{C} = \text{CH}_2 + \text{Br}_2 \rightarrow \text{H}_2\text{C} - \text{CH}_2$$

mechanism:

Contributors

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