

The catalysis of hydrogen photogeneration from electron-donor ions in aqueous medium by the iodide ion

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Abstract

Iodide ion is found to catalyse the photogeneration of hydrogen from aqueous electron-donor ions. As examples, the photolysis data of aqueous Fe^{2+} , Ti^{3+} , SO_3^{2-} and H_2FO_2^- ions in the presence and absence of I^- ion are given. The reaction mechanisms are discussed.