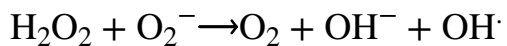
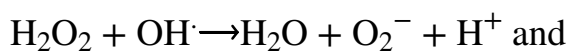


Haber–Weiss reaction

The Haber–Weiss cycle consists of the following two reactions:



The second reaction achieved notoriety as a possible source of hydroxyl radicals. However, it has a negligible rate constant. It is believed that iron(III) complexes can catalyse this reaction: first, Fe(III) is reduced by superoxide, followed by oxidation by dihydrogen peroxide.

See also: Fenton reaction

Source:

PAC, 1997, 69, 1251 (*Glossary of terms used in bioinorganic chemistry (IUPAC Recommendations 1997)*) on page 1277