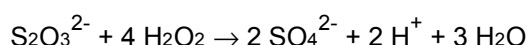
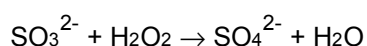


## Applications of Hydrogen Peroxide

### Hydrogen Peroxide for Removing of Sulfur Compounds

A variety of industries produces effluents containing sulfite, bisulfite or thiosulfate. These reductive sulfur compounds are used or may be formed in coke oven plants, power stations, oil refineries, photographic or cellulose processing industries. Sulfite and thiosulfate are transformed into sulfate by taking up oxygen dissolved in water. This hinders the effectiveness of biological sewage treatment plants. Furthermore, sulfite is toxic to microorganisms.

A pretreatment of effluents containing reductive sulfur compounds should be done to avoid these problems. Hydrogen peroxide destroys sulfite, bisulfite and thiosulfate by oxidation to sulfate.



This detoxification can be carried out at slightly acidic to slightly alkaline conditions. The dosage of hydrogen peroxide is controlled using the redox potential.

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