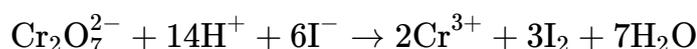


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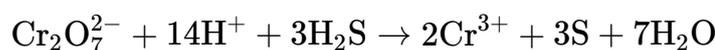


Reactions in Acidic Medium:

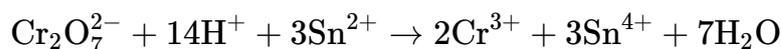
1. Oxidation of Iodides to Iodine:



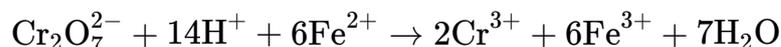
2. Oxidation of Sulfides to Sulfur:



3. Oxidation of Tin(II) to Tin(IV):

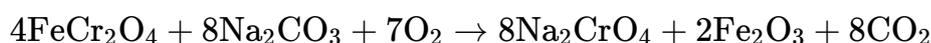


4. Oxidation of Iron(II) to Iron(III):



Preparation:

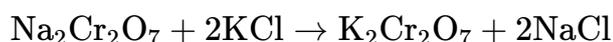
1. From Chromite Ore:



Followed by:



2. Conversion to Potassium Dichromate:

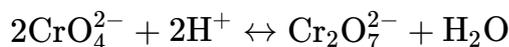


Chemical Properties:

• Reduction in Acidic Medium:



• Interconversion with Chromate:



Acidic medium shifts the equilibrium towards $\text{Cr}_2\text{O}_7^{2-}$, while basic medium favors CrO_4^{2-} .