

Chem!stry

Name: ()

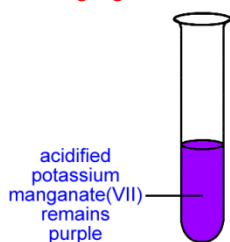
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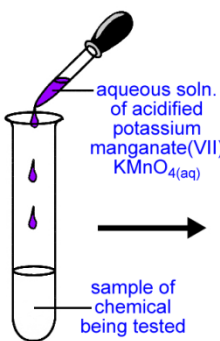
Testing for Reducing Agents and Oxidising Agents

Test for reducing agents using acidified potassium manganate(VII):

Result if the chemical being tested is not a reducing agent:



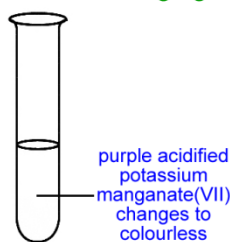
acidified potassium manganate(VII) remains purple



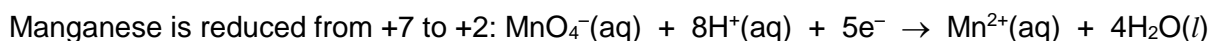
aqueous soln. of acidified potassium manganate(VII) $\text{KMnO}_4(\text{aq})$

sample of chemical being tested

Result if the chemical being tested is a reducing agent:

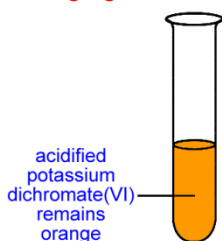


purple acidified potassium manganate(VII) changes to colourless

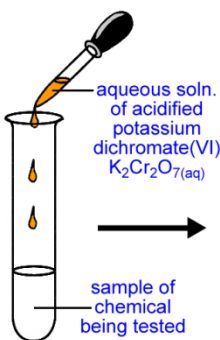


Test for reducing agents using acidified potassium dichromate(VI):

Result if the chemical being tested is not a reducing agent:



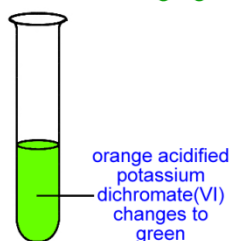
acidified potassium dichromate(VI) remains orange



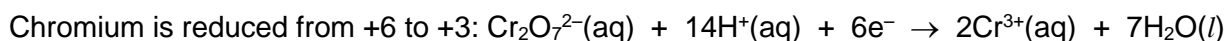
aqueous soln. of acidified potassium dichromate(VI) $\text{K}_2\text{Cr}_2\text{O}_7(\text{aq})$

sample of chemical being tested

Result if the chemical being tested is a reducing agent:

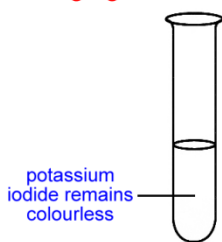


orange acidified potassium dichromate(VI) changes to green

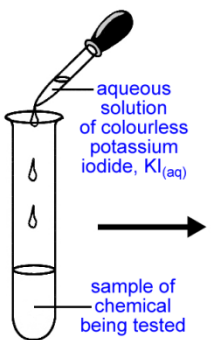


Test for oxidising agents using potassium iodide:

Result if the chemical being tested is not an oxidising agent:



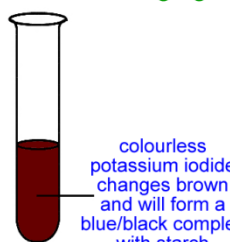
potassium iodide remains colourless



aqueous solution of colourless potassium iodide, $\text{KI}(\text{aq})$

sample of chemical being tested

Result if the chemical being tested is an oxidising agent:



colourless potassium iodide changes brown and will form a blue/black complex with starch

