## Answer to Question #51582, Chemistry, Organic Chemistry

 $2HBr(g)+H_2SO_4(aq)=2H_2O(I)+SO_2(g)+Br_2(I)$ 

From this equation work out the oxidation states of bromine and sulphur before and after the reaction. from this which has been oxidised and which reduced.

## Answer:

	before the reaction	after the reaction
Br oxidised	HBr, Br⁻¹	Br <sub>2</sub> , Br <sup>0</sup>
S reduced	H <sub>2</sub> SO <sub>4</sub> , S <sup>+6</sup>	SO <sub>2</sub> , S <sup>+4</sup>

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