

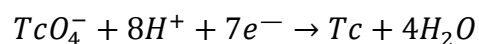
Answer on the question #64172, Chemistry / General Chemistry

Question:

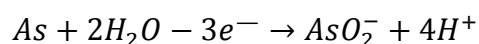
balance the following redox equation using the half reaction method $TcO_4^- + As \rightarrow Tc + AsO_2^-$

Answer:

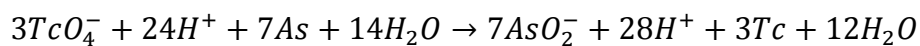
Reduction half-reaction:



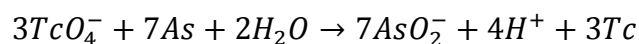
Oxidation half-reaction:



As we can see, the coefficients before the electron specification in the equation are 7 and 3. So, let's multiply the reduction by 3 and oxidation by 7 and sum them up :



Now, let's simplify the hydrogen cations and water molecules:



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