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## Fe2 mno4- balanced equation

The balanced equation is  $5Fe^2 + MnO_4^- + 8H$ ®  $\rightarrow 5Fe^3 + Mn^2$ ® + 4H 2. Determine the oxidation number of each variable atom. 3. Make the total increase in oxidation equal to a complete reduction in the oxidation number of each variable atom. 4. Place these numbers as coefficients before formulas that contain these atoms. 5. Balance all remaining atoms except O and H. 6. Balance o. 7. Balance o. 7. Balance H. 8. Check that the atoms and charges are balanced. Here's how it works. Your unbalanced equation is  $Fe^2 + MnO_4^- \rightarrow Fe^3 - + Mn^2 1$ . Specify the oxidation number for each variable atom. Fe: +2  $\rightarrow$  +3; Change = +1 Mn: +7  $\rightarrow$  +2; Change = -5 3. Make the total increase in oxidation equal to a complete decrease in the oxidation number. We need 5 atoms fe every 1 atom Mn. It gives us +5 and -5 complete changes. 4. Place these numbers as coefficients before formulas that contain these atoms. 5 Fe<sup>2</sup> + 1 MnO<sub>4</sub>  $\rightarrow$  5 Fe<sup>3</sup> + 1 MnO<sub>4</sub>  $\rightarrow$  7 MnO<sub>4</sub>  $\rightarrow$  8 Fe<sup>3</sup> + 1 MnO<sub>4</sub>  $\rightarrow$  8 F except H and O. Done.6. Balance O. Add enough HÖO molecules to the incomplete side to balance H. Add enough H - ions on the left, so on the right, so we need 8 - H on the left. 5 Fe<sup>2</sup> + 1 MnO<sub>4</sub> -  $\rightarrow$  5 Fe<sup>3</sup> ® + 1 MnO<sub>4</sub> -  $\rightarrow$  5 Fe<sup>3</sup>  $+ 8 \rightarrow H$  Check if the atoms and charges are balanced. Left: 5 Fe; 1 Mn; 4 O; 8 H On the right: 5 Fe; 1 Mn; 4 O; 8 H On the right: 5 Fe; 1 Mn; 4 O; 8 H On the right: 4 Fe0 On the left: 4 Fe3 HO This is a redox reaction: 4 Fe4 HO This is a redox reaction: 4 Fe5 HO This is a oxidiser, Fe2+ is a reducing agent. 02/03/2007, 23h27 #1 ----- bonjour à tous! j'ai un petit probleme en chimie: dans un exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMnO4-cet exercice, parle du annus de fer II parmangana de potassium KMn des charges(en particulier MnO4- qui devient Mn2+... Before estrons qui disparaissent c'est is possible? -Pourquoi le 5 devant les fers et pas apply un coefficient 1? Can't you? merci d'avance pour vos réponses sophie ----- Aujourd'hui 02/03/2007, 23h44 #2 Bonsoir Pour l'équilibre des charges, tu do sommeris les charges de part et d'autre de la flèche. Côté réactifs tu as donor5\*2 + (1) + 8 = 17 Producers of Côté : 5\*3 + 2 = The account is good ... Electrons do not disappear, but are transferred from one species to another. For the iron iometric coefficient, a stahhaagenic coefficient of material balance would have been sufficient to balance the material, but not to balance the loads (check it yourself) 03.03.2007, 00:39 #3 good night Soffie, which you have: MnO4-8H 5e-----> Mn2 - 4H2O Fe2-----> Mn2 - 4H2O Fe2-----> Fe3-1e- eliminate electrons in general reaction, we multiply half equation Fe 5 and you will find your equation 2007-03-03, 10:11 #4 oook I understand better like that thank you all one last trick (you excuse me the vocabulary is not very scientific, I can not find better words ...): if we use H (8 in this case) which I think come out of the water (H - OH-) so there is a need oh - who to walk no? at the beginning is logically as much H-as OH-? :s on the other hand, I understand the story of your coef. Stoechio, don't you want you to know that I'm 5, but how do we find it at the beginning (or another equation of the same kind)? thank you once again Sophie Today 03/03/2007, 01:05 .m. #5 I think you haven't seen the oxidation numbers, otherwise it's an easy way to find out how much electrons are exchanged in the absence of this tool, writing half the equations will save you every time as it's written on your course (yes, I see it here) 2007/03/30, 13:07 #6 H-and OH-, it happens that oxydo reduction reactions cause pH to vary from MnO4-not stable to the main environment, we add acid to the target because, as you note, it consumes today 03/03/2007, 16:03 #7 no I haven't seen the names of oxidation, that's why I actually use half the equations, but I don't think it always simplifies things ... 2007/04/03, 14:54 #8 MnO4- the main medium gives MnO2, on MnO2 you need to understand the reaction to the acidic medium, and then H's from the acidic medium, and the acidic medium has a supplication of the acidic medium. to add 8 reactor balances to load the load of the extras of 8H. Finally you look at the number of atoms in each element and you add 4H2O 04/03/2007, 15:07 #9 Sent soffie oook I get better so understand thanks to all the latest trick (then excuse me vocabulary is not very scientific, I can not find better words ...): if we use H H (8 in this case) which I think come out of the water (H - OH-) so there's necessarily OH - who walk right? at the beginning is logically as much H-as OH-? :s on the other hand, I understood the story coef. stoechio. 5, may comment le trouve on au départ (ou sur une autre équation du meme genre)? merci encore sophie On use réellement des H+ : effect I toujours le titrage rédox par le permanganate en milieu acide: on ajoute avant le titrage du HCl 1 ou 2M à la solution de Fe2+. A+ You follow several steps to: Identify the oxidation number of each variable atom. Determine the change in the oxidation number of each variable atom. Determine the oxidation number of each variable atom. in the coefficients before formulas that contain these atoms. Balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms and charges are balance #H#. Check that the atoms are balance #H#. Check Right side: #Fe = +3; Mn = +2# 2. Determine the change in the oxidation number of each variable atom. #Fe: +2 → +1; Edit = +1# #Mn: +7 → +2; Edit = -5# 3. Make the total increase in oxidation number. We need 5 atoms #Fe# every 1 atom #Mn#. This gives us a total of #+5# and #-5#. 4. Place these numbers as coefficients before formulas that contain these atoms. #color(red)(5)Fe^2+ + color(1)MnO 4^- - color (red)(5)Fe^3+ + color (red)(6)Fe^3+ + color (red #color(red)(5)Fe^2+ + color (red)(1)MnO  $4^-$  + color(1)MnO  $4^-$  + color(2)(5)Fe^3+ + color(2)(5)Fe^3+ + color(2)(6)H  $4^-$  + color(1)MnO  $4^-$  + color(1)MnO  $4^-$  + color(2)Fe^3+ + color(2)Mn^2+ + color(3)Mn^2+ + color(3)MnO  $4^-$  + color(3)MnO  $4^$ color(blue)(4)H 2O#8. Check that the atoms and charges are balanced. On the left: #5 Fe#; #1 Mn#; #8 H#; #4 O# On the right: #5 Fe#; #1 Mn#; #8 H#; #4 O# Left: #color(white)(II)+10colo color(red)(5)Fe^3+ + color(red)(1)Mn^2+ + color(blue)(4)H\_2O# Steps to balance the Reox reaction equation: This may seem a little at the beginning, but it will help to look at the example of the lower page: Write out the unbalanced oxidation and reduce, ignoring H and O at this stage. O atoms, adding H2O. Then balance H either: by adding H+ (for acidic solutions) or by adding electrons if necessary. The semi-equations shall be multiplied by the relevant factors to include the transmission of the same number of electrons. Combine the semi-reactions to eliminate electrons from the general reaction. Here's a redox reaction in acid solution, what we balance: Fe2+(aq) + MnO4-(aq) → Fe3+(aq) (reduction) Step B Balance each side. Iron Pool Reaction: To balance this equation, we just need to add an electron to the right side of the equation. Fe2+(aq)  $\rightarrow$  Fe3+(aq)  $\rightarrow$  Hn2+(aq) + 4H2O Next to balance eight tobhydrogens in water, we add 8H +(aq) to the left. MnO4-(aq)  $\rightarrow$  Mn2+(aq)  $\rightarrow$  Mn2+(aq) + 4H2O Next to balance eight tobhydrogens in water, we add 8H +(aq) to the left. MnO4-(aq)  $\rightarrow$  Mn2+(aq)  $\rightarrow$  Mn2+(aq) + 4H2O Next to balance eight tobhydrogens in water, we add 8H +(aq) to the left. MnO4-(aq)  $\rightarrow$  Mn2+(aq)  $\rightarrow$  Mn2+( 4H2O Now, looking at the equation above, we can see the charges are unmatched on the left vs right side. The overall charge on the left is +7 and on the right +2. To balance the charge, we need to add five electrons to the left side of the equation. MnO4-(ag) + 8H+(ag) + 5e- → Mn2+(ag) + 4H2O Step CCorre half-equations with corresponding numbers, so that both contain the same number of free electrons on each side. In that case, we're going to have to multiply the iron reaction by five. Step D Add side reactions. Electrons on each side cancel to give general reaction: 5Fe2 + (aq) + MnO4-(aq) + 8H + (aq) - 5Fe3 + (aq)) + Mn2+(aq) + 4H2O 4H2O

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