Aqueous Equilibria



Across

- Salts that contain an ____ cation are generally very soluble in water
- 6. This is where you stop a titration due to the colour change by an indicator
- 11. A ____ pipet has a bulb in the middle, and has only one graduation on it.
- 15. When two salt solutions are mixed, a ____ can form if Qsp > Ksp
- 16. Ksp: The _ ___ constant
- 18. What colour would you expect for phenolphthalein at pH 10?
- 19. A volumetric analytic technique that relies on stoichiometry of a reaction in solution
- 22. When ionic compounds (salts) dissolve in water, their ions from their crystal lattice structures
- 24. When reading a volume accurately, look at eye-level, and read the bottom of the liquid's

- 25. In a weak acid strong base (or a weak base - strong acid) titration, a buffer solution is created the equivalence point
- acid is a good choice to 26. prepare a buffer solution at pH 5
- 28. The pH at the equivalence point in an acid-base titration is determined by the produced in the neutralization reaction
- 29. A ____ is specialized glassware used in titrations

Down		
1	Salts that contain the anion are	
1.	generally very soluble in water	
2.	An acid-base is a weak acid	
	where the acid is a different colour	
	than its conjugate base	
3.	acid would be a good choice to	
	prepare a buffer at pH 9	
5.	This is where you SHOULD stop a	
	acid-base titration because the acid	
-	and base are exactly neutralized	
1.	IS an indicator that is	
	7 5	
8.	The solubility of solid Cu(OH)2 in	
	0.10-M NaOH solution is less than	
	it is in pure water, due to the	
	effect	
9.	A buffer solution may contain a	
	weak base and the salt of its	
10	is an indicator that	
10.	IS all indicator that changes to yellow at any nH above	
	5.5 to 6	
12.	acid would be a good choice to	
	prepare a buffer solution at pH 2	
13.	The pH of a buffer solution can be	
	calculated using the	
	Hasselbalch equation	
14.	A buffer solution may contain a	
	and the salt of its conjugate	
16	When dissolving a salt the solution	
.0.	is when Qsp = Ksp	
17.	Cations and anions become in	
	water. The water molecules	
	surround each ion due to ion-dipole	
	forces.	
20.	Salts that contain the cation	
21.	are generally very soluble in water	
	A sait with a small KSp value is not	
23	A solution is one that resists a	
20.	change in pH	
27.	When choosing an indicator for a	
	titration, be sure it changes at	
	a pH close to the pH of the	
	equivalence point (English spelling)	
	1	

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2.

3.

5.

7.



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- 25. In a weak acid strong base (or a weak base - strong acid) titration, a buffer solution is created the equivalence point
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- 28. The pH at the equivalence point in an acid-base titration is determined by the produced in the neutralization reaction
- 29. A is specialized glassware used in titrations

Down Salts that contain the anion are generally very soluble in water An acid-base is a weak acid where the acid is a different colour than its conjugate base acid would be a good choice to prepare a buffer at pH 9 This is where you SHOULD stop a acid-base titration because the acid and base are exactly neutralized is an indicator that is yellow at low pH values up to about 7.5 8. The solubility of solid Cu(OH)2 in 0.10-M NaOH solution is less than it is in pure water, due to the effect 9. A buffer solution may contain a weak base and the salt of its is an indicator that 10. changes to yellow at any pH above 5.5 to 6 12. acid would be a good choice to prepare a buffer solution at pH 2 13. The pH of a buffer solution can be calculated using the Hasselbalch equation 14. A buffer solution may contain a and the salt of its conjugate base 16. When dissolving a salt, the solution is when Qsp = Ksp 17. Cations and anions become ____ in water. The water molecules surround each ion due to ion-dipole forces. 20. Salts that contain the cation are generally very soluble in water 21. A salt with a small Ksp value is not very ____ in water 23. A _____ solution is one that resists a change in pH 27. When choosing an indicator for a titration, be sure it changes at a pH close to the pH of the equivalence point (English spelling)

Aqueous Equilibria



Across

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- 25. In a weak acid strong base (or a weak base - strong acid) titration, a buffer solution is created ____ the equivalence point
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- 29. A ____ is specialized glassware used in titrations

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