

Acids & Bases HOMEWORK

Lesson 1

1. Provide the name for each of the strong acids listed below. Provide the formula for each of the strong bases listed below.

- ~~HBr~~ **hydrobromic acid**
- ~~HCl~~ **hydrochloric acid**
- ~~HNO₃~~ **nitric acid**
- ~~H₂SO₄~~ **sulfuric acid**
- ~~Strontium hydroxide~~ **LiOH**
- ~~potassium hydroxide~~ **KOH**
- ~~Sodium hydroxide~~ **NaOH**
- ~~calcium hydroxide~~ **Ca(OH)₂**
- ~~ammonium hydroxide~~ **LiOH**

HNO₂ is a WEAK acid & bases will completely dissociate in water

2. Of the acids and bases listed below, circle the ones that completely dissociate in water.

HCl

~~HBr~~

~~HNO₂~~

~~Mg(OH)₂~~

NaOH

NaHCO₃

~~NaOH~~

Na₂CO₃

3. What is the formula for hydronium? **H₃O⁺**

4. Cu_2CO_3 will react with water and lose a H^+ ion in the process.

- Write a balanced equation for this reaction: **$\text{Cu}_2\text{CO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_3\text{O}^+ + \text{Cu}_2\text{CO}_3^-$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because Cu_2CO_3 is a weak acid.**
- Would you define Cu_2CO_3 as a proton donor or a proton acceptor? **proton donor, because it is losing a H^+ ion.**
- In your written equation, is Cu_2CO_3 acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry acid, because it is losing a proton.**
- Identify the conjugate base of Cu_2CO_3 : **Cu_2CO_3^-**
- Identify Cu_2CO_3 as polyprotic, amphoteric, or neither. **polyprotic, because it contains multiple H's.**

5. F^- will react with water and gain a H^+ ion in the process.

- Write a balanced equation for this reaction: **$\text{F}^- + \text{H}_2\text{O} \rightarrow \text{HF} + \text{OH}^-$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because F^- is a weak base.**
- Would you define F^- as a proton donor or a proton acceptor? **proton acceptor, because it is gaining a H^+ ion.**
- In your written equation, is F^- acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry base, because it is gaining a proton.**
- Identify the conjugate acid of F^- : **HF**
- Identify F^- as polyprotic, amphoteric, or neither. **neither**

6. HSO_4^- will react with water and lose a H^+ ion in the process.

- Write a balanced equation for this reaction: **$\text{HSO}_4^- + \text{H}_2\text{O} \rightarrow \text{H}_3\text{O}^+ + \text{SO}_4^{2-}$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because HSO_4^- is a weak acid.**
- Would you define HSO_4^- as a proton donor or a proton acceptor? **proton donor, because it is losing a H^+ ion.**
- In your written equation, is HSO_4^- acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry acid, because it is losing a proton.**
- Identify the conjugate base of HSO_4^- : **SO_4^{2-}**
- Identify HSO_4^- as polyprotic, amphoteric, or neither. **amphoteric, because it has a negative charge (and will like to have a proton) and it has H's (and will like to lose one).**

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wanders the world attempting to preserve his life and reunite with his beloved

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web published in 1759 the satire *candide* is considered voltaire s signature work it centers around the adventures of the title character a good hearted but hopelessly naïve young man whose opinions and actions are determined

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web *candide* is a young man who lives in the barony of thunder ten tronckh there he is instructed by the philosopher pangloss whose doctrine is that we live in the best of all possible worlds one day the baron s daughter cunégonde comes across pangloss having sex with paquette her mother s chambermaid

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web mar 23 2021 in *candide* s ensuing wanderings around europe and the americas voltaire treats his hero to a veritable guided tour of all of the evils of war lust avarice vanity and colonialism

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web apr 8 2023 a picaresque novel by the enlightenment philosopher voltaire voltaire never openly admitted to having written the controversial *candide* the work is signed with a pseudonym monsieur le docteur ralph literally mister doctor ralph

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web in holland a kindly anabaptist named jacques takes *candide* in *candide* runs into a deformed beggar and discovers that it is pangloss pangloss explains that he has contracted syphilis and that cunégonde and her family have all

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web 3 76 268 333 ratings 10 969 reviews *candide* is the story of a gentle man who though pummeled and slapped in every direction by fate clings desperately to the belief that he lives in the best of all possible worlds

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web *candide* ou l optimisme k p n ' d i: d kon deed french is a french satire written by voltaire a philosopher of the age of enlightenment first published in 1759 the novella has been widely translated with english versions titled *candide* or all for the best 1759 *candide* or the optimist 1762 and *candide*