

Acids and Bases Worksheet

1. Acids and bases share some properties but are different in others. Use the samples at the side of the class to complete the chart. If both acids and bases share the property, place it in both columns.

Property	Acids	Bases
Conductivity in Aqueous Solution	Very	Very
Taste	Sour	Bitter
Feel	—	Slippery
Reaction with Metal	produces H_2 gas	—
Reaction with Carbonate	produces CO_2 gas	—
Colour on Litmus Paper	Red	Blue
Colour with Universal Indicator	Red	Purple
Colour with phenolphthalein	Colourless	Pink

2. Indicate if each compound is an acid or base and name it.

	Acid/Base?	Name
HNO_3	A	nitric acid
$Mg(OH)_2$	B	magnesium hydroxide
H_3PO_4	A	phosphoric acid
H_2CO_3	A	carbonic acid
HF	A	hydrofluoric acid
$Fe(OH)_3$	B	iron (III) hydroxide

3. Write the formula for each of the following acids/bases:

hydrochloric acid	<u>HCl</u>	hydrochloric acid	<u>HCl</u>
aluminum hydroxide	<u>$Al(OH)_3$</u>	sodium hydroxide	<u>$NaOH$</u>
lithium hydroxide	<u>$LiOH$</u>	calcium hydroxide	<u>$Ca(OH)_2$</u>
sulfuric acid	<u>H_2SO_4</u>	sulfurous acid	<u>H_2SO_3</u>

19 3 Acids And Bases Answer Key Chemistry

Frank R. Foulkes

19 3 Acids And Bases Answer Key Chemistry:

The Chemistry of the Several Natural and Artificial Heterogeneous Compounds Used in Manufacturing Porcelain, Glass, and Pottery Simeon Shaw, 1900 **Prentice Hall Chemistry**, 2000 **Cehmistry Textbook for College and University**

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Frank R. Foulkes, 2012-09-12 Physical Chemistry for Engineering and Applied Sciences is the product of over 30 years of teaching first year Physical Chemistry as part of the Faculty of Applied Science and Engineering at the University of Toronto. Designed to be as rigorous as compatible with a first year student's ability to understand the text presents detailed step by step derivations of the equations that permit the student to follow the underlying logic and of equal importance to appreciate any simplifying assumptions made or mathematical tricks employed. In addition to the 600 exercises and end of chapter problems the text is rich in worked non trivial examples many of which are designed to be inspiring and thought provoking. Step by step derivation of all equations enables the student to smoothly follow the derivation by sight and can be understood relatively easily by students with moderate skills and backgrounds in mathematics. Clear and accessible Physical Chemistry for Engineering and Applied Sciences includes The answers to all of the 112 worked examples 99 exercises following many of the worked examples and 496 end of chapter problems. Topics not normally seen in introductory physical chemistry textbooks ionic reaction rates activities and activity coefficients or not regularly explained in much detail electrochemistry chemical kinetics with an eye on industrial applications. Special appendices that provide detailed explanations of basic integration and natural logarithms for students lacking a background in integral calculus. An in depth chapter on electrochemistry in which activities and activity coefficients are used extensively as required for accurate calculations *A Dictionary of Chemistry and the Allied Branches of Other Sciences* Henry Watts, 1875 *General Chemistry* Ralph H. Petrucci, William S.

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Watts, 1905 **Chemistry** James Vincent Quagliano, L. M. Vallarino, 1969 **A Dictionary of applied chemistry v. 1,**

1912 Sir Thomas Edward Thorpe,1912 **Cumulated Index Medicus** ,1993 **Chemical News and Journal of Physical Science** ,1873 A Dictionary of Applied Chemistry: A-Che Thomas Edward Thorpe,1912 **Watts' Dictionary of Chemistry** Henry Watts,Henry Forster Morley,Matthew Moncrieff Pattison Muir,1894 *A dictionary of chemistry and the allied branches of other sciences* Henry Watts (F.C.S.),1882 **Year-book of Pharmacy** ,1882 *Journal of the Chemical Society* ,1881

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- Chapter 1: Introduction to 19 3 Acids And Bases Answer Key Chemistry
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- Chapter 3: 19 3 Acids And Bases Answer Key Chemistry in Everyday Life
- Chapter 4: 19 3 Acids And Bases Answer Key Chemistry in Specific Contexts
- Chapter 5: Conclusion

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