

Name: _____
 Hour: _____ Date: _____

Chemistry: pH and pOH calculations

Part 1: Fill in the missing information in the table below.

pH	[H_3O^{1+}]	pOH	[OH^{2-}]	ACID or BASE?
3.78				
	$3.89 \times 10^{-4} \text{ M}$			
		5.19		
			$4.88 \times 10^{-6} \text{ M}$	
8.46				
	$8.45 \times 10^{-13} \text{ M}$			
		2.14		
			$2.31 \times 10^{-11} \text{ M}$	
10.91				
	$7.49 \times 10^{-6} \text{ M}$			
		9.94		
			$2.57 \times 10^{-8} \text{ M}$	
4.16				
	$1.06 \times 10^{-5} \text{ M}$			
		3.82		
			$8.53 \times 10^{-7} \text{ M}$	
7.05				
	$4.73 \times 10^{-10} \text{ M}$			
		1.33		
			$9.87 \times 10^{-3} \text{ M}$	
11.68				
	$9.22 \times 10^{-8} \text{ M}$			
		12.24		
			$5.39 \times 10^{-12} \text{ M}$	

Calculating Ph Pogil Answer Key

RJ Shavelson



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A Generalised Equation for Calculating PH G. D. Peckham, 1984 **Ph** Hans Skrifvars, 1999 Measurement of PH Richard E. Lawn, Florence Elizabeth Prichard, 2003 Whether pH is being used to test a sample against a legal requirement or specification as part of an analytical method for monitoring and controlling a reaction as a process control in the chemical industry or for the environmental monitoring of waste and effluents it is important that all pH measurements are carried out in a logical and consistent manner paying careful attention to experimental procedures in order to obtain reliable results This guide provides scientists with the knowledge of how to do just that first by outlining the principles of pH measurement and buffer solutions pH meters and electrodes are then discussed including selection criteria and the care of electrodes Finally sections on making pH measurements and uncertainty are followed by a set of practical exercises Measurement of pH is one of the Practical Laboratory Skills Training Guides a series that aims to make achieving best practice easy These invaluable manuals will enable both experienced and inexperienced staff to get the essential basics of any experiment right simply by following the clear and easy to use instructions provided The guides are written by experienced scientists and include minimal theory plenty of practical exercises in order to assess competence and trouble shooting information Other titles are Measurement of Mass Measurement of Volume High Performance Liquid Chromatography and Gas Chromatography *Determination of PH* Roger Gordon Bates, 1973 Method of Determining PH by the Alkaline Absorption of Carbon Dioxide, 1992 A method for measuring the concentration of hydroxides in alkaline solutions in a remote location using the tendency of hydroxides to absorb carbon dioxide The method includes the passing of carbon dioxide over the surface of an alkaline solution in a remote tank before and after measurements of the carbon dioxide solution A comparison of the measurements yields the absorption fraction from which the hydroxide concentration can be calculated using a correlation of hydroxide or pH to absorption fraction

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