

pH's of Weak Acid or Weak Base Solutions					
				1.00E-07	
Acid	pK _a	Initial [M]	x(quadratic)		pH
H ₃ PO ₄	2.12	0.10	2.40E-02		1.62
	2.12	0.01	5.71E-03		2.24
HCO ₂ H	3.75	0.10	4.13E-03		2.38
	3.75	0.01	1.25E-03		2.90
benzoic	4.19	0.10	2.51E-03		2.60
	4.19	0.01	7.72E-04		3.11
acetic	4.75	0.10	1.32E-03		2.88
	4.75	0.01	4.13E-04		3.38
KHP	5.51	0.10	5.54E-04		3.26
	5.51	0.01	1.74E-04		3.76
H ₂ CO ₃	6.37	0.10	2.06E-04		3.69
	6.37	0.01	6.51E-05		4.19
H ₂ PO ₄ ⁻	7.21	0.10	7.84E-05		4.10
	7.21	0.01	2.48E-05		4.60
Base	pK _b				
PO ₄ ⁻³	1.32	0.10	4.93E-02		12.69
	1.32	0.01	8.49E-03		11.93
dimethylamine	3.27	0.10	7.06E-03		11.85
	3.27	0.01	2.06E-03		11.31
methylamine	3.44	0.10	5.85E-03		11.77
	3.44	0.01	1.73E-03		11.24
trimethylamine	4.19	0.10	2.51E-03		11.40
	4.19	0.01	7.72E-04		10.89
ammonia	4.75	0.10	1.32E-03		11.12
	4.75	0.01	4.13E-04		10.62
HPO ₄ ⁻²	6.79	0.10	1.27E-04		10.10
	6.79	0.01	4.01E-05		9.60
HCO ₃ ⁻	7.63	0.10	4.84E-05		9.69
	7.63	0.01	1.52E-05		9.19
pyridine	8.75	0.10	1.33E-05		9.13
	8.75	0.01	4.17E-06		8.63
acetate	9.25	0.10	7.45E-06		8.88
	9.25	0.01	2.32E-06		8.38
aminobenzene	9.37	0.10	6.48E-06		8.82
	9.37	0.01	2.02E-06		8.33
benzoate	9.81	0.10	3.89E-06		8.60
	9.81	0.01	1.20E-06		8.11