

Water chamber, ul acid or base added	pH:Polin,Zheng,Zhen,Wang	
1000 acid		3.03
900 acid		3.11
800 acid		3.16
700 acid		3.22
600 acid		3.25
500 acid		3.33
400 acid		3.4
300 acid		3.53
200 acid		3.6
100 acid		4.05
0 acid		4.3
0 base		4.3
100 base		7.4
200 base		10.2
300 base		10.7
400 base		10.8
500 base		10.9
600 base		11
700 base		11.07
800 base		11.11
900 base		11.12
1000 base		11.21
pH 4 buffer chamber, ul acid or base added	pH:Chen,Ni,Ko,Dolotov	
1000 acid		3.95
900 acid		4
800 acid		4.04
700 acid		4.09
600 acid		4.14
500 acid		4.26
400 acid		4.26
300 acid		4.32
200 acid		4.38
100 acid		4.46
0 acid		4.55
0 base		4.59
100 base		4.56
200 base		4.59
300 base		4.62
400 base		4.66
500 base		4.7
600 base		4.75
700 base		4.79
800 base		4.81
900 base		4.85
1000 base		4.87
pH 10 buffer chamber, ul acid or base added	pH:Ovsishcher,Balchand,Melo,Chen	
1000 acid		10.03
900 acid		10.04

800 acid	10.05
700 acid	10.06
600 acid	10.07
500 acid	10.08
400 acid	10.09
300 acid	10.1
200 acid	10.11
100 acid	10.12
0 acid	10.15
0 base	10.13
100 base	10.14
200 base	10.14
300 base	10.15
400 base	10.15
500 base	10.16
600 base	10.17
700 base	10.17
800 base	10.18
900 base	10.19
1000 base	10.2
apple juice chamber, ul acid or base addec pH:Ovsishcher,Balchand,Melo,Chen	
1000 acid	3.62
900 acid	3.63
800 acid	3.64
700 acid	3.66
600 acid	3.67
500 acid	3.68
400 acid	3.7
300 acid	3.72
200 acid	3.74
100 acid	3.75
0 acid	3.78
0 base	3.76
100 base	3.77
200 base	3.78
300 base	3.84
400 base	3.8
500 base	3.81
600 base	3.82
700 base	3.83
800 base	3.84
900 base	3.85
1000 base	3.86
cranberry juice chamber, ul acid or base a pH:Chen,Ni,Ko,Dolotov	
1000 acid	2.89
900 acid	2.91
800 acid	2.93
700 acid	2.97
600 acid	3

500 acid	3.02
400 acid	3.05
300 acid	3.07
200 acid	3.1
100 acid	3.11
0 acid	3.15
0 base	3.15
100 base	3.16
200 base	3.17
300 base	3.19
400 base	3.21
500 base	3.22
600 base	3.24
700 base	3.26
800 base	3.28
900 base	3.3
1000 base	3.32
potato extract chamber, ul acid or base ad pH:Suponitsky,Li,Duchovni	
1000 acid	5.37
900 acid	5.96
800 acid	5.6
700 acid	5.69
600 acid	5.8
500 acid	5.89
400 acid	5.98
300 acid	6.07
200 acid	6.18
100 acid	6.26
0 acid	6.39
0 base	6.41
100 base	6.46
200 base	6.51
300 base	6.63
400 base	6.69
500 base	6.76
600 base	6.82
700 base	6.89
800 base	6.95
900 base	7.08
1000 base	7.15

pH:Sun, Kim, Kalantzopoulos, Islam

pH:Ali, Debnath, Kim, Rukhsha

3.29	2.87
3.33	2.91
3.39	2.97
3.45	3.01
3.53	3.07
3.62	3.13
3.7	3.2
3.86	3.3
4.13	3.47
4.54	3.73
5.9	5.85
	5.54
	10.27
	10.45
	10.64
	10.75
	10.85
	10.86
	10.98
	11.03
	11.1
	11.14

pH:Huang, Sharma, Nie

pH:Chan, Chiu, Deng, Lui

4	3.94
4.04	3.97
4.07	4.01
4.11	4.05
4.15	4.1
4.2	4.13
4.23	4.17
4.27	4.23
4.32	4.27
4.36	4.33
4.43	4.4
4.41	4.56
4.43	4.41
4.46	4.43
4.49	4.46
4.52	4.49
4.55	4.52
4.58	4.56
4.61	4.59
4.65	4.62
4.67	4.64
4.7	4.67

pH:Sun, Kim, Kalantzopoulos, Islam

pH:Chan, Yip, Xiao, Wong

10.48	10.29
10.5	10.3

	10.51	10.32
	10.52	10.33
	10.52	10.34
	10.55	10.36
	10.54	10.37
	10.57	10.39
	10.58	10.4
	10.58	10.42
	10.57	10.44
	10.53	10.43
	10.57	10.45
	10.59	10.45
	10.6	10.45
	10.6	10.46
	10.61	10.46
	10.61	10.47
	10.62	10.48
	10.63	10.49
	10.64	10.49
	10.64	10.5
pH:Zhu,Lounsbery-S,Litvack-W,Parker		pH:Chan,Yip,Xiao,Wong
	3.56	3.93
	3.57	3.96
	3.58	3.97
	3.59	3.99
	3.6	3.99
	3.61	4.01
	3.62	4.02
	3.63	4.05
	3.65	4.06
	3.66	4.08
	3.67	4.12
	3.67	4.12
	3.68	4.12
	3.69	4.12
	3.69	4.13
	3.7	4.14
	3.7	4.16
	3.71	4.17
	3.72	4.18
	3.73	4.19
	3.73	4.2
	3.79	4.21
pH:Delisi,Morris,Rabb,Yeo		pH:Chan,Chiu,Deng,Lui
	3.07	2.79
	3.08	2.8
	3.1	2.82
	3.11	2.85
	3.13	2.86

3.14	2.88
3.16	2.89
3.19	2.9
3.19	2.91
3.24	2.93
3.33	3.03
3.29	3.08
3.3	3.03
3.31	3.02
3.32	3.06
3.33	3.11
3.34	3.13
3.35	3.16
3.35	3.2
3.36	3.23
3.36	3.26
3.37	3.3

pH:Huang,Sharma,Nie

pH:Eng,How,Lin,Wu

5.57	6.02
5.68	6.08
5.8	6.15
5.93	6.38
6.09	6.45
6.2	7.3
6.34	7.35
6.47	7.4
6.62	7.46
6.71	7.5
6.81	7.55
6.8	6.56
6.93	6.69
7.04	6.76
7.14	6.83
7.26	6.89
7.38	6.94
7.49	6.96
7.61	7.05
7.74	7.13
7.82	7.2
7.95	7.26

pH:Zhu,Lounsbery-S,Litvack-W,Parker pH:Suponitsky,Li,Duchovni

5.7	6.73
6.22	9.38
9.15	10.07
10.12	10.42
10.48	10.57
10.65	10.73
10.68	10.83
	10.9
	10.99
	11.03
	11.08

pH:Kabir,Teo

3.77
3.81
3.86
3.9
3.93
3.98
4.03
4.08
4.13
4.2
4.27
4.25
4.25
4.29
4.32
4.37
4.4
4.44
4.47
4.51
4.54
4.58

pH:Eng,How,Lin,Wu

pH:Ge(nius),Lee,Li,Chen

10.21	9.97
10.23	9.98

10.24	10
10.26	10.02
10.27	10.04
10.28	10.05
10.3	10.08
10.31	10.09
10.32	10.1
10.33	10.12
10.23	10.14
10.24	10.15
10.31	10.16
10.32	10.17
10.33	10.18
10.34	10.19
10.38	10.2
10.38	10.21
10.38	10.23
10.41	10.25
10.42	10.26
10.43	10.27

pH:Abedeem,Tang,Ioustous,Reznik

pH:Tao,Jiao,Lui,Han

3.42	3.26
3.45	3.3
3.47	3.34
3.48	3.4
3.5	3.43
3.52	3.47
3.56	3.55
3.59	3.64
3.63	3.68
3.66	3.77
3.78	3.82

3.69
3.78
3.84
3.88
3.92
3.96
4
4.03
4.06
4.09
4.13

pH:Kabir,Teo

2.58
2.6
2.61
2.63
2.66

2.68
2.7
2.71
2.73
2.74
2.76
2.74
2.76
2.76
2.79
2.8
2.81
2.63
2.64
2.85
2.65
2.87

pH:DeLisi,Morris,Rabb,Yeo

pH:Chan,Chiu,Deng,Lui

3.14	2.89
3.2	2.93
3.23	2.98
3.27	3.04
3.32	3.13
3.39	3.24
3.47	3.3
3.53	3.43
3.76	3.65
4.2	3.9
6.5	6
5.13	5.84
6.2	10.24
8.6	10.65
10.4	10.92
11.04	11.05
11.19	11.16
11.31	11.26
11.35	11.34
11.55	11.39
11.67	11.43
11.72	11.45

pH:Chan,Kattelu,Lu,Bessoir

3.54
3.58
3.62
3.64
3.66
3.68
3.75

pH:Kabir,Teo

pH:Chan,Yip,Xiao,Wong

2	2.91
2.66	2.95
2.72	3.01
2.75	3.05
2.82	3.12
2.89	3.19
2.93	3.29
3.12	3.4
3.33	3.63
3.72	4.1
6.32	7.02
6.35	6.68
9.08	8.68
10.76	9.77
11.04	10.62
11.22	11.09
11.35	11.3
11.43	11.43
11.48	11.5
11.34	11.59
11.58	11.65
11.65	11.71

pH:Abedeen,Tang,Ioustous,Reznik

pH:Tao,Jiao,Lui,Han

2.42	2.61
2.47	2.65
2.51	2.7
2.55	2.75
2.65	2.81
2.72	2.88
2.8	2.97
2.91	3.07
3.07	3.25
3.36	3.58
4.93	6.6
6.97	5.5
9.86	10.3
10.43	10.72
10.69	10.97
10.84	11.13
11.02	11.2
11.17	11.33
11.23	11.4
11.26	11.47
11.3	11.53
11.36	11.56

pH:Chan,Kattelu,Lu,Bessoir

pH:Eng,How,Lin,Wu

2.52	2.65
2.59	2.69
2.63	2.76
2.67	2.87
2.77	3.08
2.82	3.2
2.93	3.23
3.02	3.37
3.18	6.38
3.51	6.47
5.02	6.6
5.02	4.98
10.12	6.45
10.43	8.21
10.98	10.12
11.11	10.76
11.26	11.18
11.32	11.37
11.36	11.48
11.42	11.58
11.45	11.62
11.5	11.68

pH:Ge(nius),Lee,Li,Chen

Water chamber, ul acid or base added

2.5 1000 acid
2.54 900 acid
2.59 800 acid
2.64 700 acid
2.71 600 acid
2.78 500 acid
2.87 400 acid
2.99 300 acid
3.15 200 acid
3.44 100 acid
5.75 0 acid
6.66 0 base
10.48 100 base
10.83 200 base
11.03 300 base
11.16 400 base
11.24 500 base
11.34 600 base
11.41 700 base
11.46 800 base
11.5 900 base
11.54 1000 base
pH 4 buffer chamber, ul acid or base added
1000 acid
900 acid
800 acid
700 acid
600 acid
500 acid
400 acid
300 acid
200 acid
100 acid
0 acid
0 base
100 base
200 base
300 base
400 base
500 base
600 base
700 base
800 base
900 base
1000 base
pH 10 buffer chamber, ul acid or base added
1000 acid
900 acid

800 acid
700 acid
600 acid
500 acid
400 acid
300 acid
200 acid
100 acid
0 acid
0 base
100 base
200 base
300 base
400 base
500 base
600 base
700 base
800 base
900 base
1000 base
apple juice chamber, ul acid or base addec
1000 acid
900 acid
800 acid
700 acid
600 acid
500 acid
400 acid
300 acid
200 acid
100 acid
0 acid
0 base
100 base
200 base
300 base
400 base
500 base
600 base
700 base
800 base
900 base
1000 base
cranberry juice chamber, ul acid or base a
1000 acid
900 acid
800 acid
700 acid
600 acid

500 acid
400 acid
300 acid
200 acid
100 acid
0 acid
0 base
100 base
200 base
300 base
400 base
500 base
600 base
700 base
800 base
900 base
1000 base
potato extract chamber, ul acid or base ad
1000 acid
900 acid
800 acid
700 acid
600 acid
500 acid
400 acid
300 acid
200 acid
100 acid
0 acid
0 base
100 base
200 base
300 base
400 base
500 base
600 base
700 base
800 base
900 base
1000 base

Water chamber ALL class avs

2.735833333
2.835833333
2.8875
2.939166667
3.021666667
3.099166667
3.174166667
3.294166667
3.716666667
4.05
5.899166667
5.8
8.821538462
10.02076923
10.66538462
10.92307692
11.07923077
11.17923077
11.291666667
11.349166667
11.415
11.466666667

pH4 buffer chamber ALL class avs

3.915
3.955
3.995
4.0375
4.08
4.1425
4.1725
4.225
4.275
4.3375
4.4125
4.4525
4.4125
4.4425
4.4725
4.51
4.5425
4.5825
4.615
4.6475
4.675
4.705

pH 10 buffer chamber ALL class avs

10.196
10.21

10.224
10.238
10.248
10.264
10.276
10.292
10.302
10.314
10.306
10.296
10.326
10.33
10.342
10.348
10.362
10.368
10.376
10.392
10.4
10.408

apple juice buffer chamber ALL class avs

3.558
3.582
3.6
3.624
3.621666667
3.645
3.678333333
3.711666667
3.736666667
3.766666667
3.82
3.81
3.8375
3.8575
3.885
3.89
3.9075
3.925
3.94
3.955
3.9675
3.9975

cranberry juice buffer chamber ALL class avs

2.8325
2.8475
2.865
2.89
2.9125

2.93
2.95
2.9675
2.9825
3.005
3.0675
3.065
3.0625
3.065
3.09
3.1125
3.125
3.095
3.1125
3.18
3.1425
3.215

potato extract buffer chamber ALL class avs

5.653333333
5.906666667
5.85
6
6.113333333
6.463333333
6.556666667
6.646666667
6.753333333
6.823333333
6.916666667
6.59
6.693333333
6.77
6.866666667
6.946666667
7.026666667
7.09
7.183333333
7.273333333
7.366666667
7.453333333

potato extract chamber, 8&9 class av