



Reagecon

A CALIBRE SCIENTIFIC COMPANY

Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 1.679 ± 0.010 @ 25°C - Traceable To N.I.S.T & As Defined By IUPAC

Temperature versus pH value

T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH
0	1.666		20	1.675		40	1.694		60	1.723		80	1.765
1	1.666		21	1.675		41	1.695		61	1.725		81	1.768
2	1.667		22	1.677		42	1.697		62	1.727		82	1.77
3	1.667		23	1.678		43	1.698		63	1.728		83	1.773
4	1.668		24	1.678		44	1.699		64	1.73		84	1.775
5	1.668		25	1.679		45	1.7		65	1.732		85	1.778
6	1.668		26	1.68		46	1.702		66	1.734		86	1.781
7	1.669		27	1.681		47	1.703		67	1.736		87	1.783
8	1.669		28	1.681		48	1.704		68	1.739		88	1.786
9	1.67		29	1.682		49	1.706		69	1.741		89	1.789
10	1.67		30	1.682		50	1.707		70	1.743		90	1.792
11	1.671		31	1.683		51	1.709		71	1.745		91	1.795
12	1.671		32	1.685		52	1.71		72	1.747		92	1.798
13	1.672		33	1.686		53	1.712		73	1.75		93	1.8
14	1.672		34	1.687		54	1.713		74	1.752		94	1.803
15	1.672		35	1.688		55	1.715		75	1.754		95	1.806
16	1.673		36	1.689		56	1.716		76	1.756			
17	1.673		37	1.69		57	1.718		77	1.758			
18	1.674		38	1.692		58	1.72		78	1.76			
19	1.675		39	1.693		59	1.722		79	1.763			

Please note that the information carried in this table is not certified or guaranteed, but contains typical pH values at a range at temperatures and so is indicative only.



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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 3.776 ± 0.010 @ 25°C - Traceable to N.I.S.T & As Defined By IUPAC

Temperature versus pH value

T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH
0	3.863		20	3.788		40	3.754		60	3.753		80	3.78
1	3.858		21	3.785		41	3.753		61	3.754		81	3.783
2	3.854		22	3.783		42	3.752		62	3.755		82	3.785
3	3.85		23	3.78		43	3.752		63	3.756		83	3.788
4	3.845		24	3.778		44	3.751		64	3.757		84	3.791
5	3.84		25	3.776		45	3.75		65	3.758		85	3.794
6	3.837		26	3.774		46	3.75		66	3.759		86	3.796
7	3.832		27	3.772		47	3.75		67	3.76		87	3.799
8	3.828		28	3.77		48	3.749		68	3.761		88	3.802
9	3.824		29	3.768		49	3.749		69	3.762		89	3.804
10	3.82		30	3.766		50	3.749		70	3.763		90	3.807
11	3.816		31	3.765		51	3.749		71	3.765		91	3.809
12	3.813		32	3.763		52	3.749		72	3.766		92	3.81
13	3.81		33	3.762		53	3.75		73	3.768		93	3.812
14	3.806		34	3.76		54	3.75		74	3.77		94	3.813
15	3.803		35	3.759		55	3.75		75	3.772		95	3.815
16	3.8		36	3.757		56	3.751		76	3.773			
17	3.796		37	3.756		57	3.751		77	3.775			
18	3.793		38	3.755		58	3.752		78	3.777			
19	3.791		39	3.755		59	3.752		79	3.778			

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 4.005 ± 0.010 @ 25°C - Traceable To N.I.S.T. & As Defined By IUPAC

Temperature versus pH value

T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH
0	4		20	4.001		40	4.027		60	4.08		80	4.159
1	4		21	4.001		41	4.029		61	4.083		81	4.164
2	3.999		22	4.002		42	4.031		62	4.087		82	4.169
3	3.999		23	4.003		43	4.034		63	4.09		83	4.173
4	3.999		24	4.004		44	4.036		64	4.094		84	4.178
5	3.998		25	4.005		45	4.038		65	4.097		85	4.183
6	3.998		26	4.006		46	4.04		66	4.101		86	4.188
7	3.998		27	4.007		47	4.043		67	4.105		87	4.193
8	3.997		28	4.008		48	4.045		68	4.108		88	4.198
9	3.997		29	4.009		49	4.048		69	4.112		89	4.203
10	3.997		30	4.011		50	4.05		70	4.116		90	4.208
11	3.997		31	4.012		51	4.053		71	4.12		91	4.213
12	3.997		32	4.014		52	4.056		72	4.124		92	4.219
13	3.998		33	4.015		53	4.058		73	4.129		93	4.224
14	3.998		34	4.017		54	4.061		74	4.133		94	4.23
15	3.998		35	4.018		55	4.064		75	4.137		95	4.235
16	3.998		36	4.02		56	4.067		76	4.141			
17	3.999		37	4.022		57	4.07		77	4.146			
18	3.999		38	4.024		58	4.074		78	4.15			
19	4		39	4.025		59	4.077		79	4.155			

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 6.865 ± 0.010 @ 25°C - Traceable to N.I.S.T. & As Defined by IUPAC

Temperature versus pH value

T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH
0	6.984		20	6.881		40	6.838		60	6.836		80	6.859
1	6.977		21	6.877		41	6.837		61	6.837		81	6.861
2	6.971		22	6.874		42	6.836		62	6.838		82	6.862
3	6.964		23	6.871		43	6.836		63	6.838		83	6.864
4	6.958		24	6.868		44	6.835		64	6.839		84	6.865
5	6.951		25	6.865		45	6.834		65	6.84		85	6.867
6	6.945		26	6.862		46	6.834		66	6.841		86	6.869
7	6.94		27	6.86		47	6.834		67	6.842		87	6.871
8	6.934		28	6.857		48	6.833		68	6.843		88	6.872
9	6.929		29	6.855		49	6.833		69	6.844		89	6.874
10	6.923		30	6.853		50	6.833		70	6.845		90	6.876
11	6.918		31	6.851		51	6.833		71	6.846		91	6.878
12	6.914		32	6.849		52	6.833		72	6.848		92	6.88
13	6.909		33	6.848		53	6.833		73	6.849		93	6.882
14	6.905		34	6.846		54	6.833		74	6.851		94	6.884
15	6.9		35	6.844		55	6.833		75	6.852		95	6.886
16	6.896		36	6.843		56	6.834		76	6.853			
17	6.892		37	6.841		57	6.834		77	6.855			
18	6.888		38	6.84		58	6.835		78	6.856			
19	6.884		39	6.839		59	6.835		79	6.858			

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Nominal pH Value versus Temperature Tables

DIN BUFFER SOLUTION pH 7.000 ± 0.010@25°C - Traceable to N.I.S.T. & As Defined by IUPAC					
Temperature versus pH value					
T(°C)	pH		T(°C)	pH	
0	7.118		30	6.987	
5	7.087		35	6.977	
10	7.059		37	6.974	
15	7.036		40	6.97	
18	7.024		45	6.965	
19	7.02		50	6.964	
20	7.016		55	6.965	
21	7.013		60	6.968	
22	7.009		65	6.974	
23	7.006		70	6.982	
24	7.003		75	6.992	
25	7.000		80	7.004	
26	6.997		85	7.018	
27	6.994		90	7.034	
28	6.992		95	7.052	
29	6.989				

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 7.413 ± 0.010 @ 25°C - Traceable to N.I.S.T. & As Defined by IUPAC									
Temperature versus pH value									
T(°C)	pH		T(°C)	pH		T(°C)	pH		
0	7.534		17	7.44		34	7.391		
1	7.527		18	7.436		35	7.389		
2	7.52		19	7.432		36	7.388		
3	7.514		20	7.429		37	7.386		
4	7.507		21	7.425		38	7.384		
5	7.5		22	7.422		39	7.382		
6	7.494		23	7.419		40	7.38		
7	7.489		24	7.416		41	7.379		
8	7.483		25	7.413		42	7.377		
9	7.478		26	7.41		43	7.376		
10	7.472		27	7.407		44	7.374		
11	7.467		28	7.405		45	7.373		
12	7.462		29	7.402		46	7.372		
13	7.458		30	7.4		47	7.371		
14	7.453		31	7.398		48	7.369		
15	7.448		32	7.396		49	7.368		
16	7.444		33	7.393		50	7.367		

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 9.180 ± 0.010 @ 25°C - Traceable to N.I.S.T. & As Defined by IUPAC

Temperature versus pH value

T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH		T(°C)	pH
0	9.464		20	9.225		40	9.068		60	8.962		80	8.884
1	9.45		21	9.216		41	9.062		61	8.958		81	8.881
2	9.436		22	9.207		42	9.056		62	8.954		82	8.877
3	9.423		23	9.197		43	9.05		63	8.949		83	8.874
4	9.409		24	9.189		44	9.044		64	8.945		84	8.87
5	9.395		25	9.18		45	9.038		65	8.941		85	8.867
6	9.382		26	9.171		46	9.032		66	8.937		86	8.864
7	9.37		27	9.163		47	9.027		67	8.933		87	8.86
8	9.357		28	9.155		48	9.021		68	8.929		88	8.857
9	9.345		29	9.147		49	9.016		69	8.925		89	8.853
10	9.332		30	9.139		50	9.01		70	8.921		90	8.85
11	9.321		31	9.132		51	9.005		71	8.917		91	8.847
12	9.31		32	9.124		52	9		72	8.913		92	8.843
13	9.298		33	9.117		53	8.995		73	8.91		93	8.84
14	9.287		34	9.109		54	8.99		74	8.906		94	8.836
15	9.276		35	9.102		55	8.985		75	8.902		95	8.833
16	9.266		36	9.095		56	8.98		76	8.898			
17	9.255		37	9.088		57	8.976		77	8.895			
18	9.245		38	9.081		58	8.971		78	8.891			
19	9.235		39	9.075		59	8.967		79	8.888			

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 10.012 ± 0.010 @ 25°C - Traceable to N.I.S.T. & As Defined by IUPAC									
Temperature versus pH value									
T(°C)	pH		T(°C)	pH		T(°C)	pH		
0	10.317		20	10.062		40	9.889		
1	10.303		21	10.052		41	9.883		
2	10.288		22	10.042		42	9.876		
3	10.274		23	10.032		43	9.87		
4	10.259		24	10.022		44	9.863		
5	10.245		25	10.012		45	9.857		
6	10.232		26	10.002		46	9.851		
7	10.219		27	9.993		47	9.845		
8	10.205		28	9.984		48	9.84		
9	10.192		29	9.975		49	9.834		
10	10.179		30	9.966		50	9.828		
11	10.167		31	9.958					
12	10.155		32	9.95					
13	10.142		33	9.941					
14	10.13		34	9.933					
15	10.118		35	9.925					
16	10.107		36	9.918					
17	10.095		37	9.91					
18	10.084		38	9.903					
19	10.073		39	9.896					

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Nominal pH Value versus Temperature Tables for DIN Buffer Standards

DIN BUFFER STANDARD pH 12.454 ± 0.050 @ 25°C - Traceable to N.I.S.T. & As Defined by IUPAC									
Temperature versus pH value									
T(°C)	pH		T(°C)	pH		T(°C)	pH		
0	13.424		21	12.592		42	11.927		
1	13.381		22	12.557		43	11.898		
2	13.337		23	12.522		44	11.87		
3	13.294		24	12.488		45	11.841		
4	13.25		25	12.454		46	11.814		
5	13.207		26	12.42		47	11.787		
6	13.166		27	12.387		48	11.759		
7	13.125		28	12.354		49	11.732		
8	13.085		29	12.322		50	11.705		
9	13.044		30	12.289		51	11.679		
10	13.003		31	12.258		52	11.653		
11	12.964		32	12.227		53	11.626		
12	12.926		33	12.195		54	11.6		
13	12.887		34	12.164		55	11.574		
14	12.849		35	12.133		56	11.549		
15	12.81		36	12.103		57	11.524		
16	12.773		37	12.072		58	11.499		
17	12.736		38	12.043		59	11.474		
18	12.699		39	12.013		60	11.449		
19	12.663		40	11.984					
20	12.627		41	11.955					

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