

Buffer Table

Buffer	pH												
	1	2	3	4	5	6	7	8	9	10	11	12	13
Potassium chloride	1.0	2.2											
Citric acid pKa 25°C (1) 3.1 (2) 4.8 (3) 6.4		2.2					6.5						
Sodium citrate tribasic dihydrate pKa 25°C (1) 3.1 (2) 4.8 (3) 6.4		2.2					6.5						
Succinic acid pKa 25°C (1) 4.2 (2) 5.6			3.2				6.5						
Sodium acetate trihydrate pKa 25°C 4.8				3.6		5.6							
DL-Malic acid pKa 25°C (1) 3.4 (2) 5.1				3.7			6.0						
Sodium cacodylate trihydrate pKa 25°C 6.3						5.0		7.4					
MES monohydrate pKa 25°C 6.1						5.2		7.1					
BIS-TRIS pKa 25°C 6.5						5.5		7.5					
ADA pKa 25°C 6.6						5.6		7.5					
ACES pKa 25°C 6.8							6.1	7.5					
PIPES pKa 25°C 6.8							6.1	7.5					
Imidazole pKa 25°C 7.0							6.2	7.8					
MOPSO pKa 25°C 6.9							6.2	7.6					
BIS-TRIS propane pKa 25°C (1) 6.8 (2) 9.0							6.3			9.5			
BES pKa 25°C 7.1							6.4	7.8					
MOPS pKa 25°C 7.2							6.5	7.9					
HEPES sodium pKa 25°C 7.5							6.8	8.2					
HEPES pKa 25°C 7.5							6.8	8.2					
TES pKa 25°C 7.5							6.8	8.2					
MOBS pKa 25°C 7.6							6.9	8.3					
DIPSO pKa 25°C 7.6								7.0	8.2				
Tris pKa 25°C 8.1								7.0		9.0			

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	1	2	3	4	5	6	7	8	9	10	11	12	13
TRIS hydrochloride pKa 25°C 8.1							7.0		9.0				
TAPSO pKa 25°C 7.6							7.0	8.2					
TEA pKa 25°C 7.8							7.0	8.3					
HEPPSO pKa 25°C 7.5							7.1	8.5					
POPSO pKa 25°C 7.8							7.2	8.5					
EPPS pKa 25°C 8.0							7.3	8.7					
BICINE pKa 25°C 8.3							7.4	9.3					
Tricine pKa 25°C 8.1							7.4	8.8					
HEPBS pKa 25°C 8.3							7.6	9.0					
TAPS pKa 25°C 8.4							7.7	9.1					
AMPD pKa 25°C 8.8							7.8	9.7					
TABS pKa 25°C 8.9								8.2	9.6				
AMPSO sodium salt pKa 25°C 9.0								8.3	9.7				
CHES pKa 25°C 9.3								8.6	10.0				
Glycine pKa 25°C (1) 2.3 (2) 9.6								8.6	10.6				
CAPSO pKa 25°C 9.6								8.9	10.3				
CAPS pKa 25°C 10.4									9.7	11.1			
CABS pKa 25°C 10.7										10.0	11.4		
Potassium chloride												12.0	13.0

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