

Low pH buffer – pH range 1.0 –2.2

Prepare a 0.2M solution of potassium chloride (KCl) (14.92g/l). To 25cm³ of this solution add the volume of 0.2M HCl shown in the table and make up to 100cm³ with water.

pH at 25°C	Volume of 0.2M HCl added (cm ³)
1.0	67.0
1.1	52.8
1.2	42.5
1.3	33.6
1.4	26.6
1.5	20.7
1.6	16.2
1.7	13.0
1.8	10.2
1.9	8.1
2.0	6.5
2.1	5.1
2.2	3.9

Bower & Bates, J. Res. natn. Bur. Stand. 55, 197 (1955)