

Potentials of the Hydrogen-pH-Electrode pHDrunio in buffer pH 0 versus calomel electrode at 25°C

In the calibration solution Buffer pH 0, different values for the outer and inner electrodes of the pHDrunio result against the calomel electrode.

The hydrogen potentials in buffer pH 0 for the outer or in pH 7 for the inner hydrogen electrode are calculated using the Nernst equation.

The values of the calomel electrode to be considered are taken from D. Dobos, Electrochemical Data, 1975, Elsevier.

Temp. °C	Potential at outer electrode in Volt	Potential at inner electrode in Volt
15	0.2503	0.6506
16	0.2497	0.6514
17	0.2490	0.6521
18	0.2483	0.6527
19	0.2477	0.6535
20	0.2471	0.6543
21	0.2464	0.6550
22	0.2458	0.6558
23	0.2451	0.6565
24	0.2445	0.6573
25	0.2438	0.6580
26	0.2431	0.6587
27	0.2425	0.6594
28	0.2418	0.6601
29	0.2412	0.6609
30	0.2405	0.6616