**H+ and OH- and pH and pOH**

**pH = - log** **[H+]**

**pOH = - log** **[OH-]**

**pH + pOH = 14**

**Kw = [H+] o [OH-] = 1 x 10-14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Solution (aq)** | **[H+] = H+  in mol/L** | **[OH-] = OH- in mol/L** | **pH** | **pOH** |
| * 1. mol/L HCl |  |  |  |  |
| * 1. mol/L NaOH |  |  |  |  |
| 1 x 10-2 M HCl |  |  |  |  |
| 1 x 10 -2 M NaOH |  |  |  |  |
| 1 x 10-3 M HCl |  |  |  |  |
| 1 x 10-3 M NaOH |  |  |  |  |
| 1 x 10-4 M HCl |  |  |  |  |
| 1 x 10-5 M NaOH |  |  |  |  |
| 1. x 10-6 HCl |  |  |  |  |