pH and pOH Table Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| EXAMPLE | SUBSTANCE | [H+] | [OH-] | pH | pOH | acid, base, or neutral? |
| 1 | HBr | 1.0 x 10-4 M | **1.0 x 10-10 M** | **4.0** | **10** | **Acid** |
| 2 | NaOH | **1.0 x 10-9 M** | **1.0 x 10-5 M** | 9.0 | **5.0** | **Base** |
| 3 | KOH | **1.0 x 10-8 M** | **1.0 x 10-6 M** | 8.0 | **6.0** | **Base** |
| 4 | NaOH | **4.0 x 10-10 M** | 2.5 x 10-5 M | **9.4** | **4.6** | **Base** |
| 5 | HCl | **3.2 x 10-5 M** | **3.2 x 10-10 M** | 4.5 | **9.5** | **Acid** |
| 6 | pumpkin pulp | 1.0 x 10-5 M | **1.0 x 10-9 M** | **5.0** | **9.0** | **Acid** |
| 7 | urine | 5.0 x 10-9 M | **2.0 x 10-6 M** | **8.3** | **5.7** | **Base** |
| 8 | saliva | **1.0 x 10-7 M** | **1.0 x 10-7 M** | **7.0** | 7.0 | **Neutral** |
| 9 | beer | **3.2 x 10-5 M** | 3.1 x 10-10 M | **4.5** | **9.5** | **Acid** |
| 10 | soda pop | **1.0 x 10-3 M** | **1.0 x 10-11 M** | **3.0** | 11 | **Acid** |
| 11 | stomach contents | **1.0 x 10-2 M** | **1.0 x 10-12 M** | 2.0 | **12** | **Acid** |
| 12 | vinegar | **1.3 x 10-3 M** | **1.3 x 10-11 M** | 2.9 | **11.1** | **Acid** |
| 13 | milk | **3.2 x 10-7 M** | **3.2 x 10-8 M** | **6.5** | 7.5 | **Acid** |
| 14 | potatoes | **1.6 x 10-6 M** | 6.3 x 10-9 M | **5.8** | **8.2** | **Acid** |
| 15 | blood | 3.98 x 10-8 M | **2.51 x 10-7 M** | **7.4** | **6.6** | **Neutral** |
| 16 | intestinal contents | **3.2 x 10-7 M** | **3.2 x 10-8 M** | 6.5 | **7.5** | **Acid** |
| 17 | apples | **7.9 x 10-4 M** | 1.3 x 10-11 M | **3.1** | **10.9** | **Acid** |

Chem 332 – O’Dette Date \_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_