Relative Strength of Acids in Aqueous Solution at 298 K and 1 atm

|  |  |
| --- | --- |
| **Acid** | **Ka** |
| HI | Very large |
| HBr | Very large |
| HCl | Very large |
| HClO4 | Very large |
| HNO3 | Very large |
| H2SO4 | Large |
| HSO4- | 1.2 x 10-2 |
| H3PO4 | 7.5 x 10-3 |
| HNO2 | 4.6 x 10-4 |
| HF | 3.5 x 10-4 |
| HC2H3O2 | 1.8 x 10-5 |
| HSO3- | 1.1 x 10-7 |
| H2S | 9.5 x 10-8 |
| HClO | 3.0 x 10-8 |
| H2PO4- | 6.2 x 10-8 |
| HBrO | 2.0 x 10-9 |
| NH4+ | 5.7 x 10-10 |
| HCO3- | 5.6 x 10-11 |
| HPO42- | 2.2 x 10-13 |
| HS- | 1.3 x 10-14 |