

CITRUS COLLEGE

O. Chem. 210

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| Acid | pK _a | Name |
|---|-----------------|-------------------------------|
| FSO ₃ H | <-12 | flurosulfonic acid |
| HClO ₄ | -10 | perchloric acid |
| HI | -10 | hydroiodic acid |
| H ₂ SO ₄ | -10 | sulfuric acid |
| HBr | -9 | hydrobromic acid |
| HCl | -7 | hydrochloric acid |
| C ₆ H ₅ SO ₃ H | -6.5 | benzenesulfonic acid |
| ROH ₂ ⁺ | -2 | conjugated acid of an alcohol |
| H ₃ O ⁺ | -1.74 | hydronium ion |
| HNO ₃ | -1.4 | nitric acid |
| HF | 3.17 | hydrofluoric acid |
| RCOOH | 4-5 | carboxylic acid |
| HOCOH | 6.35 | carbonic acid |
| $\begin{array}{c} \parallel \\ \text{O} \\ \text{RCOOH} \end{array}$ | 8.2 | peracid |
| CH ₃ COCH ₂ COCH ₃ | 9 | 2,4-pentanedione |
| NH ₄ ⁺ | 9.24 | ammonium ion |
| HCN | 9.31 | hydrocyanic acid |
| C ₆ H ₅ OH | 10 | phenol |
| RCH ₂ NO ₂ | 10 | nitroalkane |
| CH ₃ COCH ₂ CO ₂ C ₂ H ₅ | 11 | ethyl acetoacetate |
| H-O-O-H | 11.6 | hydrogen peroxide |
| C ₂ H ₅ CO ₂ CH ₂ CO ₂ C ₂ H ₅ | 13 | diethyl malonate |
| H ₂ O | 15.74 | water |
| RCH ₂ OH | 16 | alcohol |
| RCONH ₂ | 17 | amide |
| RCOCH ₂ R' | 20 | ketone |
| ROOCCH ₂ R' | 25 | ester |
| RC≡CH | 25 | alkyne |
| H ₂ | 35 | hydrogen |
| CH ₃ SOCH ₃ | 38 | dimethylsulfoxide |
| NH ₃ | 38 | ammonia |
| C ₆ H ₅ CH ₃ | 41 | toluene |
| CH ₂ =CHCH ₃ | 43 | propene |
| CH ₂ =CH ₂ | 44 | ethene |
| CH ₃ CH ₃ | 50 | ethane |

