

Chem 14D – Spring 2013

pK_a Table

(see Vollhardt: p. 60 in 5th Edition or 6th Edition)

Name of Acid	Chemical Formula	pK_a
Hydrogen iodide	HI	-10.0
Hydrogen bromide	HBr	-9.0
Hydrogen chloride	HCl	-8.0
Sulfuric acid	H ₂ SO ₄	-3.0
Hydronium ion	H ₃ O ⁺	-1.7
Nitric acid	HNO ₃	-1.4
Methanesulfonic acid	CH ₃ SO ₃ H	-1.2
Hydrogen fluoride	HF	3.2
Acetic acid	CH ₃ COOH	4.7
Hydrogen cyanide	HCN	9.2
Ammonium ion	NH ₄ ⁺	9.3
Methanethiol	CH ₃ SH	10.0
Methanol	CH ₃ OH	15.5
Water	H ₂ O	15.7
Ammonia	NH ₃	35
Methane	CH ₄	~50