

Chemistry 122: Chemical Principles II

Weak acids, weak bases, and salts worksheet

Identify each of the following compounds as one of the following: weak acid (WA), weak base, strong acid (SA), strong base, acidic salt (AS), basic salt, or neutral salt. You can use K_a and K_b tables to help you decide. Answers are given below.

NH_4Cl	KBr	$(\text{C}_2\text{H}_5)_3\text{NHBr}$
HNO_3	HClO_4	$\text{Ba}(\text{OH})_2$
KOH	KClO_4	CH_3NH_2
NaF	NH_4NO_3	HI
CH_3COOH	KCH_3COO	$\text{NH}_2\text{NH}_3\text{Cl}$
$\text{C}_2\text{H}_5\text{NH}_2$	$\text{CH}_3\text{NH}_3\text{Cl}$	HCN

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Answers:

AS	NS	AS
SA	SA	SB
SB	NS	WB
BS	AS	SA
WA	BS	AS
WB	AS	WA