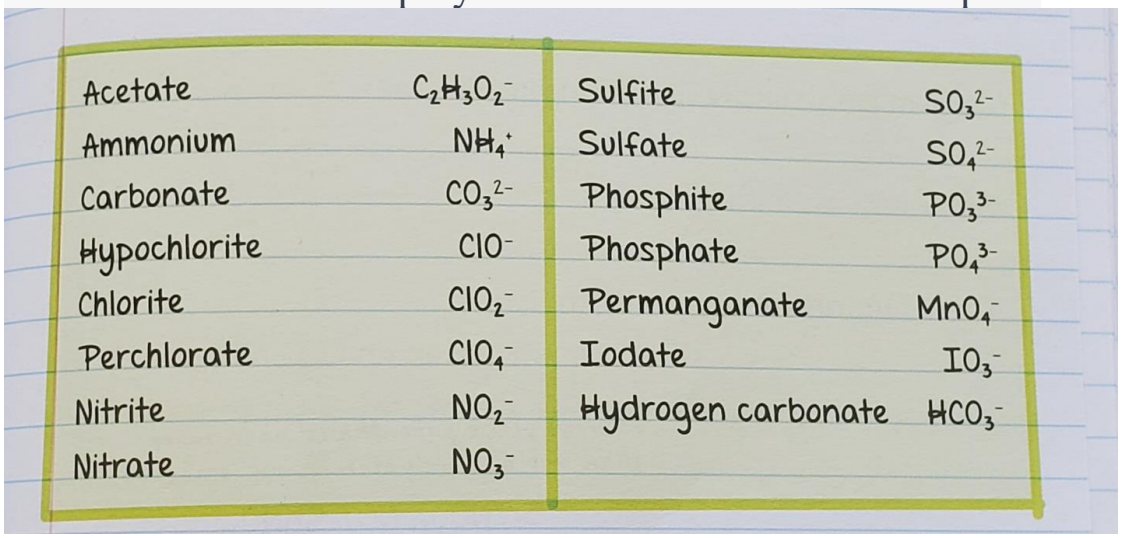
HW2

Reminder: ions can be polyatomic. Here are some examples:



Acetate	$C_2H_3O_2^-$	Sulfite	SO_3^{2-}
Ammonium	NH_4^+	Sulfate	SO_4^{2-}
Carbonate	CO_3^{2-}	Phosphite	PO_3^{3-}
Hypochlorite	ClO^-	Phosphate	PO_4^{3-}
Chlorite	ClO_2^-	Permanganate	MnO_4^-
Perchlorate	ClO_4^-	Iodate	IO_3^-
Nitrite	NO_2^-	Hydrogen carbonate	HCO_3^-
Nitrate	NO_3^-		

Question:

We have a substance, X, with an ionic bond. The mass of the positive ion in the substance is approximately 1 AMU greater than the mass of the negative ion. One of the elements in the positive and negative ions is the same. This substance is capable of reacting with acids. Can you provide the name of this substance?