

NAMING ACIDS

Acids dissolve in water (H_2O) and form ions. The following table consists of a list of halogen oxoacids. Fill in the missing information.

Acid	Name of the Acid in Aqueous Solution	Cation	Anion	Polyatomic Anion Name
HClO_4	Perchloric acid			Perchlorate
HClO_3	Chloric acid			
HClO_2	Chlorous acid			Chlorite
HClO	Hypochlorous acid			
HBrO_4		H_3O^+		Perbromate
HBrO		H_3O^+		Hypobromite
HIO_3	Iodic acid			
HFO_2		H_3O^+		Fluorite
HIO	Hypoiodous acid			

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Answers

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HClO_4	Perchloric acid	H_3O^+	ClO_4^-	Perchlorate
HClO_3	Chloric acid	H_3O^+	ClO_3^-	Chlorate
HClO_2	Chlorous acid	H_3O^+	ClO_2^-	Chlorite
HClO	Hypochlorous acid	H_3O^+	ClO^-	Hypochlorite
HBrO_4	Perbromic acid	H_3O^+	BrO_4^-	Perbromate
HBrO	Hypobromous acid	H_3O^+	BrO^-	Hypobromite
HIO_3	Iodic acid	H_3O^+	IO_3^-	Iodate
HFO_2	Fluorous acid	H_3O^+	FO_2^-	Fluorite
HIO	Hypoiodous acid	H_3O^+	IO^-	Iodite