Lesson 8 Solubility Table.notebook



Lesson 8: Solubility Table

Using the table on p. 10 of your data booklet. Determine if the following are soluble (aq) or slightly soluble (s).

Solubility of Some Common Ionic Compounds in Water

Note: Group $1 = Li^+$, Na^+ , K^+ , Rb^+ , Cs^+ , Fr^+ Group $2 = Be^{2+}$, Mg^{2+} , Ca^{2+} , Sr^{2+} Ba^{2+} , Ra^{2+}

"all" means "all compounds containing these ions"

"most" means "most compounds containing these ions"

"only with" means "only compounds containing" the ion or ions listed

Solubility of Selected Ionic Compounds in Aqueous Solutions at 25°C

	something of secretary compounds in influence securious in 200							
	Ion	Group 1 ions NH ₄ ⁺ NO ₃ ⁻ ClO ₃ ⁻ ClO ₄ ⁻ CH ₃ COO ⁻	F-	CI ⁻ Br ⁻	SO ₄ ²⁻	CO ₃ ² - PO ₄ ³ - SO ₃ ² -	103 ⁻ 00CC00 ² -	он⁻
Naclo	Solubility greater than or equal to \$1 mol/L very soluble) (aq)	most	most	most	most	Group 1 ions NH ₄ ⁺	Group 1 ions NH ₄ ⁺ Co(IO ₃) ₂ Fe ₂ (OOCCOO) ₃	Group 1 ions NH ₄ ⁺
	Solubility less than 0.1 mol/L (slightly soluble) (s)	RbClO ₄ CsClO ₄ AgCH ₃ COO	Li ⁺ Mg ²⁺ Ca ²⁺ Sr ²⁺ Ba ²⁺ Fe ²⁺ Pb ²⁺	Cu ⁺ Ag ⁺ Pb ²⁺ TI ⁺	Ca ²⁺ Sr ²⁺ Ba ²⁺ Ag ⁺ Pb ²⁺ Ra ²⁺	most	most	most

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Ex.) Determine the solubility of the following compounds:

Formula	Solubility
NaCl	(a=) Very soluble
2+ 2- :PbCl ₂	(S) Slightly soluble
77 / — PbCl ₄	(aa)
:BaSO ₄	(5)
·Cr ₂ S ₃	(5)
:CsCH₃COO	(āa)
K ₂ CO ₃	(αa)

* Group 1 ion

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