

Answer on Question#40525-Chemistry-Inorganic Chemistry

Question

Which of these two molecules loose 'K' very easily KCl or potassium dihydrogen phosphate?

Answer

Both salts dissociate easily.

But **KCl** loses K very easily (in water solution), because K – Cl bond is more polar than K – O bond in KH_2PO_4 .

It may also be proved by the solubility values:

KCl solubility (20°C) = 344 g/L = 4.61 mol/L

KH_2PO_4 solubility (20°C) = 226 g/L = 1.66 mol/L