A storage tank with 3.8x10 (root of 5) liters of water is contaminated with sodium hydroxide and has a pH of 10.82. Calculate the volume of 0.10M hydrochloric acid required to be added to the tank in order to neurtralize the water.

## Solution:

$$pOH = 14 - pH = 14 - 10,82 = 3,18$$

$$n([H^+])$$
  $n([OH\ ])$ 

$$V(HCl) - \frac{mol/l}{l}$$

Answer: 251 ml.

Calculate the molar solubility of silver chromate in a 0.5M solution of the soluble salt potassium chromate.

## Solution:

 $\Leftarrow$ 

Solubility equilibrium (Ag

$$(2x)^{2}(x 5)$$

$$\sqrt{0} \left(\frac{mol}{l}\right)$$

Answer:  $\binom{mol}{l}$ .

Answer provided by AssignmentExpert.com