Answer on Question #70981, Chemistry / General Chemistry :

How many moles of HCl are in 45mL of 0.3 M HCl.

Solution.

$V(HCl) = 45ml = 0.045l$

$C(HCl) = 0.3M$

$v(HCl) - ?$

Molar concentration:

$$C(HCl) = \frac{v(HCl)}{V(HCl)}$$

And:

$v(HCl) = C(HCl) \cdot V(HCl)$

$v(HCl) = 0.3M \cdot 0.045l$

$v(HCl) = 0.0135mol$

Answer: $v(HCl) = 0.0135mol$ **/**