

How many moles are there in 4.557E+1 g of chlorine (Cl)?

Solution:

To determine number of moles of chlorine atoms let's use formula:

$$n(\text{Cl}) = \frac{m(\text{Cl})}{M(\text{Cl})} = \frac{45.57 \text{ g}}{35.5 \text{ g/mol}} = 1.28 \text{ mol}$$

(Where m – mass of chlorine in grams, M – molar mass of chlorine)

Answer:

There are 1.28 moles of chlorine in 4.557E+1 grams of chlorine atoms.

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