

## Answer on Question #59243 - Chemistry - Inorganic Chemistry

### Task:

How many moles are present in 1 g of gold?

### Solution:

Gold is a chemical element with symbol Au.

The molar mass of Au is 196.97 g/mol.

We find the amount of Au:

$$n(\text{Au}) = \frac{m(\text{Au})}{M(\text{Au})}.$$

Then,

$$n(\text{Au}) = \frac{1\text{g}}{196.97\text{g/mol}} = 0.005\text{ mol}.$$

### Answer:

$$n(\text{Au}) = 0.005\text{ mol}.$$