

Molecular weight of water (H₂O) is: Mw= 18.015 g/mole

Amount of substance is : $n = m/Mw$.

$$n = 652\text{g} / 18.015 \text{ g/mol} = 36,19 \text{ mole}$$

In chemistry and physics, the Avogadro constant (symbols: N_A) is defined as the number of constituent particles (usually atoms or molecules) in one mole of a given substance. It has dimensions of reciprocal mol and its value is equal to $6.022 \times 10^{23} \text{ mol}^{-1}$.

If 1 mole includes 6.022×10^{23} molecules, then 36,19 mole includes:

$$N = 36,19 * 6.022 \times 10^{23} = 2,18 \times 10^{25} \text{ molecules}$$