Answer on Question#47644 Chemistry – Physical Chemistry

How many water molecules are in a block of ice containing 2.50mol of water (H2O)? Express the number of molecules numerically.

Solution

N (H₂O) = n (H₂O) · N_A = 2,50 mole · 6,02 · 10^{23} mole⁻¹ = 1,505 · 10^{24} - the number of molecules. Answer: 1,505 · 10^{24} .