Answer to the Question #61556, Chemistry / General Chemistry What is the mass of water in 0.01132 moles of MgSO₄*7H₂O?

$$n = \frac{m}{M}$$

$$M(MgSO_4 * 7H_2O) = 246g/mol$$

$$M(MgSO_4) = 120g/mol$$

$$m(MgSO_4 * 7H_2O) = 0.01132 \cdot 246 = 2.78472g$$

$$m(MgSO_4) = 0.01132 \cdot 120 = 1.3584g$$

$$m(H_2O) = 2.78472 - 1.3584 = 1.42632g$$

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