Answer on Question #64728 - Chemistry – General Chemistry

Calcium reacts with water to yield calcium hydroxide and water according to the following equation: Ca + 2H2O ==> Ca(OH)2 + H2. How many moles of hydrogen will be produced if 2393.5 grams of calcium hydroxide is produced?

Answer

$$Ca + 2H_2O = Ca(OH)_2 + H_2$$

$$v(H_2) = v(Ca(OH)_2) = \frac{m}{M} = \frac{2393.5 \ g}{74.093 \ \frac{g}{mol}} = 32.304 \ mol$$

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