

Answer on Question#60540 – Chemistry – General chemistry

Question: How many moles of KHP are in 0.284 grams of KHP.

Solution: KHP is Potassium hydrogen phthalate with chemical formula $C_8H_5KO_4$.

$$M(C_8H_5KO_4) = 8 \cdot 12 + 5 \cdot 1 + 1 \cdot 39 + 4 \cdot 16 = 204 \frac{g}{mol}$$

$$n(C_8H_5KO_4) = m(C_8H_5KO_4) / M(C_8H_5KO_4) = 0.284g / 204 \frac{g}{mol} = 0.0014 \text{ mol}$$

Answer: 0.0014 mol $C_8H_5KO_4$.

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