



Oct 2-8:04 AM

Theoretical yield → Calculate (Math) what we should get in a perfect situation

Actual yield → Actual in LAB results.

Theo % H₂O in CuSO₄ · 5H₂O

$$\frac{\text{M}_\text{H}_2\text{O}}{\text{M}_\text{CuSO}_4 \cdot 5\text{H}_2\text{O}} = \frac{5(18)}{64 + 32 + 4(16) + 5(18)} = \frac{90}{250} = 36\%$$

P.T.

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Theo = 36%

LAB 34.5%
Actual

Math.

% Error = $\frac{|Act - Theo|}{Theo} \times 100 = \frac{|34.5 - 36|}{36} \times 100 = 4.17\%$

← Absolute value always +

% Yield = $\frac{Act}{Theo} \times 100 = \frac{34.5}{36} \times 100 = 95.83\%$

95.83% \rightarrow 100%

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% Yield + % error = 100%

"right" "wrong"

(HW)

PS 3-1 1995 PS changes
S. A. W.

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