

Internal Standard: 29.0mg

Sample: 34.5mg

Mole ratio = $(0.73/1)/(3/3) = 0.73$

Mole ratio = $(2.14/3)/(3/3) = 0.713$

Averaged = 72.16%

%P of Standard = 1

MW of Compound = 274.48

MW of Standard: = 168.19

$$\text{Molar ratio} = \frac{\left[\frac{I_{cpd}}{nH_{cpd}} \right]}{\left[\frac{I_{std}}{nH_{std}} \right]}$$

$$\text{wt}\% = \frac{mg_{std} \times MW_{cpd} \times \text{molar ratio} \times P_{std}}{mg_{cpd} \times MW_{std}} \times 100 = \mathbf{98.9\%}$$

