

Internal Standard: 42.8mg

Sample: 42.6mg

Mole ratio = $(1.22/2)/(3/3) = 0.61$ (61%)

Mole ratio = $(1.77/3)/(3/3) = 0.59$ (59%)

Averaged = 60%

%P of Standard = 1

MW of Compound = 274.48

MW of Standard: = 168.19

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

$$\text{wt}\% = \frac{mg_{std} \times MW_{cpd} \times \text{molar ratio} \times P_{std}}{mg_{cpd} \times MW_{std}} \times 100 = \mathbf{98.4 \text{ wt}\%}$$

