

^1H NMR (500 MHz, CDCl_3)

Internal standard = 15.0 mg

Sample = 15.9 mg

Molar ratio = $[5.78/9]/[6.0/6] = 0.64$

%P of standard = 0.98

MW of cpd = 142.03

MW of std = 94.13

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

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

$$\text{wt}\% = 89.3\%$$

