

¹H qNMR of 1-bromo-3,5-bis(1-chloro-1-methylethyl)benzene (**3**) (400 MHz, CDCl₃)

$$\text{Molar ratio} = \frac{(I_{\text{cpd}}/nH_{\text{cpd}})}{(I_{\text{std}}/nH_{\text{std}})} = \frac{(1.00/1)}{(3.20/3)} = 0.938$$

$$\text{wt\%} = \frac{\text{mg}_{\text{std}} \times \text{MW}_{\text{cpd}} \times \text{molar ratio} \times P_{\text{std}}}{\text{mg}_{\text{cpd}} \times \text{MW}_{\text{std}}} = \frac{11.1 \times 310.06 \times 0.938 \times 1.00}{19.3 \times 168.19} = 99\%$$

