



Quant.  $^{19}\text{F}$ -NMR for purified 2,3,7,8-tetrafluorothianthrene  
471 MHz, 298 K,  $\text{CDCl}_3$

$$\begin{aligned} \text{wt}\% &= \frac{\text{mg}_{\text{Std}} \times \text{MW}_{\text{cpd}} \times \text{molar ratio} \times P_{\text{std}}}{\text{mg}_{\text{cpd}} \times \text{MW}_{\text{std}}} \times 100 \\ &= \frac{13.1 \text{ mg} \times 288.28 \frac{\text{g}}{\text{mol}} \times 0.5 \times 1.00}{8.9 \text{ mg} \times 218.20 \frac{\text{g}}{\text{mol}}} \times 100 = 97.2\% \end{aligned}$$

