

^1H qNMR of ^tBu -MsFluidBr (**4**) (400 MHz, CDCl_3)

$$\text{Molar ratio} = \frac{(I_{\text{cpd}}/nH_{\text{cpd}})}{(I_{\text{std}}/nH_{\text{std}})} = \frac{(4.00/4)}{(10.05/3)} = 0.299$$

$$\text{wt}\% = \frac{\text{mg}_{\text{std}} \times \text{MW}_{\text{cpd}} \times \text{molar ratio} \times P_{\text{std}}}{\text{mg}_{\text{cpd}} \times \text{MW}_{\text{std}}} = \frac{15.9 \times 818.04 \times 0.299 \times 1.00}{23.1 \times 168.19} = 100\%$$

