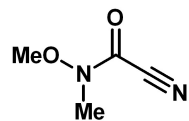
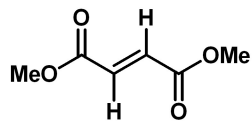


400 MHz ¹H NMR spectrum of compound **2** after purification by vacuum filtration through silica with standard dimethyl fumarate (recorded in CDCl₃)



2



dimethyl fumarate*

Pdt **2**: Determination of purity:

$$\text{Molar Ratio} = \frac{\left[\frac{3.00}{3.00} \right]}{\left[\frac{3.00}{2.00} \right]} = 0.667$$

$$\frac{18.9 \text{ mg}_{\text{std}} \times 114.10 \text{ MW}_{\text{cpd}} \times 0.667 \text{ mol. rat.} \times 1.00 \text{ P}_{\text{std}}}{10.4 \text{ mg}_{\text{cpd}} \times 144.13 \text{ MW}_{\text{std}}} \times 100 = 95.9 \%$$

