

3-phenyl-propionaldehyde **2** ^1H NMR qNMR trial 1 (400 MHz, CDCl_3 , 298 K)

2: 120.0 mg

1,3,5-trimethoxybenzene (TMB): 150.0 mg

molar ratio: $(I_{\text{cpd}}/N_{\text{H}_{\text{cpd}}})/(I_{\text{TMB}}/N_{\text{H}_{\text{TMB}}}) = (2.0/2.0)/(2.97/3.0) = 1.01$

molecular weight of **2**: 134.18 g/mol

molecular weight of TMB: 168.19 g/mol

purity of TMB: 99%

wt % = $[(150.0 \times 134.18 \times 1.01 \times 0.99)/(120.0 \times 168.19)] \times 100 = 99.7\%$

16 scans, 60 s relaxation time (D1)

