

(+)-2 and 1,3,5 trimethoxybenzene
¹H qNMR, 400 MHz, CDCl₃

7.26 CDCl₃

6.09
5.89
5.88
5.87
5.85
5.84
5.83
5.81
5.43
5.42
5.42
5.38
5.38
5.38
5.29
5.28
5.28
5.26
5.26
4.36
4.36
4.36
4.35
4.35
4.34
4.34
4.34
4.33
4.33
3.77
3.11
3.11
3.10
3.10
3.10
3.09
2.82
2.81
2.80
2.77
2.76
2.76
2.75
1.96
1.95
1.60

Purity determined to be **96.9wt%** versus 1,3,5-trimethoxybenzene as internal standard.

16 scans, relaxation delay (d1) = 30 s

Internal standard = 11.92mg

Sample = 29.18mg

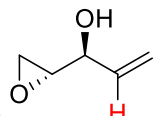
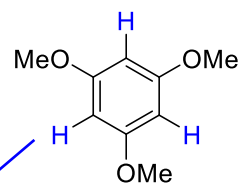
%P of Standard = 99.83wt%

MW of **(+)-2** = 100.12 g/mol

MW of Standard = 168.19 g/mol

$$wt\% = \frac{mg_{std} \times MW_{cpd} \times I_{cpd} \times nH_{std} \times potency_{std}}{mg_{cpd} \times MW_{std} \times I_{std} \times nH_{cpd}}$$

$$96.9wt\% = \frac{11.92 \times 100.12 \times 13.30 \times 3 \times 99.83}{29.18 \times 168.19 \times 10.00 \times 1}$$



10.00
13.30
13.63
13.63
13.18
30.10
13.14
13.63
13.59
13.04

10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.5
 f1 (ppm)

11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-1000