

OS-QNMR-Step-1

8.33
8.31
8.12
8.10

7.26

3.76
3.74
3.70
3.68
3.25
3.24
3.23
3.07
2.88
1.53
1.52
1.50
1.50
1.49
1.49
1.47
1.33
1.32
1.31
1.29
1.28
1.26
1.04
1.02
0.91
0.90
0.89
0.88
0.87
0.85

Int = Average of normalized integrals values

MW = Molecular weight

P = Purity (as percent value)

m = mass

n = number of protons giving rise to a given NMR signal (The total number of protons is set to one because an average of all normalized integrals is carried out)

$$n_{IS} = 1$$

$$n_1 = 1$$

$$Int_{IS} = 1.03$$

$$Int_1 = 0.99$$

$$MW_{IS} = 165.15 \text{ g/mol}$$

$$MW_1 = 379.15 \text{ g/mol}$$

$$m_{IS} = 2.53 \text{ mg}$$

$$m_1 = 5.69 \text{ mg}$$

$$P_{IS} = 98\%$$

$$P [\%] = \frac{n_{IS} \cdot Int_2 \cdot MW_2 \cdot m_{IS}}{n_2 \cdot Int_{IS} \cdot MW_{IS} \cdot m_2} \cdot P_{IS} = 95 \%$$

