

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)

$n_{EC} = 1$

$n_3 = 1$

$Int_{EC} = 1.00$

$Int_3 = 0.9975$

$MW_{EC} = 88.06$

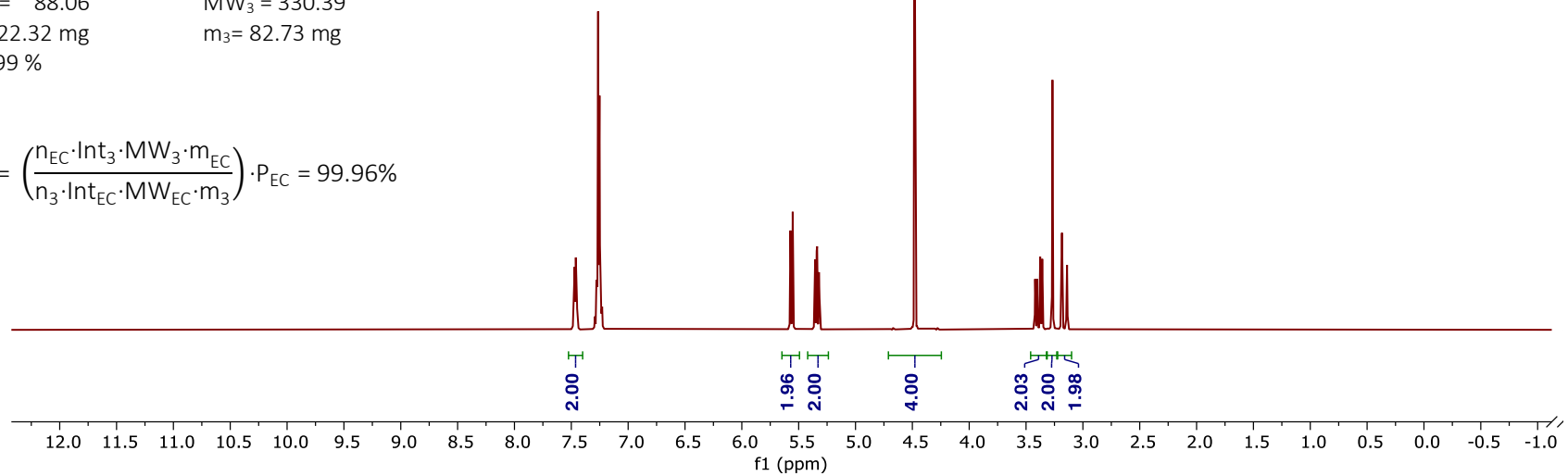
$MW_3 = 330.39$

$M_{EC} = 22.32 \text{ mg}$

$m_3 = 82.73 \text{ mg}$

$P_{EC} = 99 \%$

$$P(\%) = \left(\frac{n_{EC} \cdot Int_3 \cdot MW_3 \cdot m_{EC}}{n_3 \cdot Int_{EC} \cdot MW_{EC} \cdot m_3} \right) \cdot P_{EC} = 99.96\%$$



¹H NMR (400 MHz, CDCl₃) of Bis((3aR,8aS)-3a,8a-dihydro-8H-indeno[1,2-d]oxazol-2-yl)methane (3) and ethylene carbonate (EC) as internal standard.