

Practical Spectroscopy Bloopers

- Cpd 2 ignore chemical shift of triplet for ^{13}C
- Cpd 11 molecular ion is $(M-1)^+$ → mol. wt. = 60 amu
- Cpd 12 elemental analysis error; chemical formula is $\text{C}_5\text{H}_7\text{O}_2\text{N}$
- Cpd 19 mol wt = 118 amu
- Cpd 21 elemental analysis error; H 2.10%
- Cpd 27 elemental analysis error; chemical formula is $\text{C}_9\text{H}_{10}\text{O}_2$
- Cpd 28 ^1H NMR shows proton ratio of 5:2 → chemical formula is $\text{C}_{15}\text{H}_{14}\text{O}$
- Cpd 47 ^{13}C singlet at 190.0 ppm is a doublet
- Cpd 60 Molecular Ion (M^+) is $(M-15)^+$ → mol wt is 104 amu
- Cpd 73 ^{13}C NMR triplet at 40.2 ppm is a doublet
- Cpd 74 ^{13}C NMR singlet at 190.0 ppm is a doublet
- Cpd 75 ^1H NMR proton ratio is 4:2:6
- Cpd 77 ^1H NMR shows 7 protons → chemical formula is $\text{C}_3\text{H}_7\text{OCl}$
- Cpd 87 ^1H NMR shows 10 protons → chemical formula is $\text{C}_9\text{H}_{10}\text{O}_3$
- Cpd 98 molecular ion is $(M-1)^+$ → mol wt = 132 amu