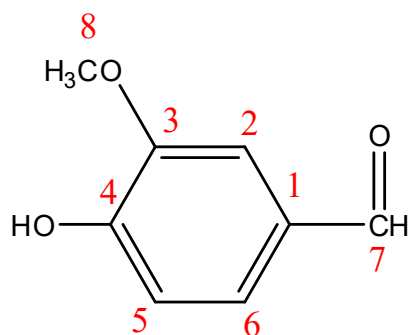


## Vanillin



Atom	<sup>13</sup> C Chemical Shift	<sup>1</sup> H Chemical Shift
1	129.410	n/a
2	108.892 or 127.290	7.3-7.5
3	147.215	n/a
4	151.917	n/a
5	114.459	7.030 (doublet)
6	108.892 or 127.290	7.3-7.5
7	191.064	9.802 (singlet)
8	55.799	3.902 (singlet)

### Notes

Ortho coupling constants largest (6-9 Hz), followed by meta (2-3 Hz), then para (0-1 Hz)

H2 split by H6 (meta) = doublet

H5 split by H6 (ortho) = doublet

H6 split by H5 (ortho) and H2 (meta) = doublet of doublets

The doublet appears at 6.98 and 7.08 = 0.10 ppm = 9.0 Hz coupling (most likely H5)