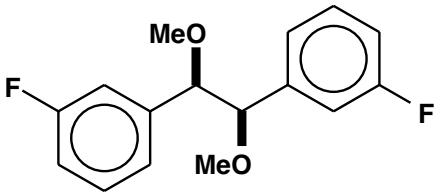
Specimen of Writing Up for the Experimental Section of Theses or Reports

(12 point Times, double spaced, not justified, no indents, super - and subscripts 10 point, 3 points up and 2 down, respectively)

Separate line, all bold. Capital letter for first word only



Structure here optional but helpful

Include provenance of starting material. Change to reference at last stage of writing up or use EndNote

Bold number. Convert to final number at last stage of writing up. No brackets

(1*R*, 2*R*)-1,2-Bis(3-fluorophenyl)-1,2-dimethoxyethane XXX

No indent, separate line

(1*R*, 2*R*)-1,2-Bis(3-fluorophenyl)ethane-1,2-diol[XX] **XXX** (4.31 g, 17.2 mmol) was dissolved in dry THF (20 ml) and added *via* cannula to a stirred suspension of sodium hydride 60% wt. (2.36 g, 59.0 mmol) in dry THF (200 ml) at 2 °C under argon. Residual diol was added with more THF (20 ml). The reaction mixture was stirred and allowed to reach room temperature. It was stirred for 1 h, cooled to 2 °C, and methyl iodide (2.30 ml, 36.9 mmol) added dropwise. The mixture was allowed to come to room temperature and stirred overnight before sodium hydroxide solution (45 ml, 2.9 M) was added. The mixture was vigorously stirred for 3 h. The layers were separated and the aqueous layer extracted with Et_2O (3 × 100 ml). The combined organic extracts were evaporated and water removed as an azeotrope with toluene (2 × 200 ml). The residue was purified by flash chromatography, eluting with 1:1 Et_2O-hexane, to give the *diether* (4.71 g, 98.3%) as needles, mp 88-88.5 °C (from Et_2O-hexane); R_f(Et_2O-hexane, 1:1) 0.50; ν_{max} ($CHCl_3$)/cm^{-1} 2828 (OC-H), 1614 (Ar) and 1592 (Ar); δ_H(400 MHz; $CDCl_3$) 7.12 (2 H, td, *J* 8.0 and $^4J_{HF}$ 5.9, 5-ArH), 6.88 (2 H, tdd, $^3J_{HF}$ 8.6, *J* 8.6, 2.5 and 0.8, 4-ArH), 6.79-6.73 (4 H, m, 2 and 6-ArH), 4.27 (2 H, s, ArC*H*) and 3.27 (6 H, s, OMe); δ_C(100.6 MHz; $CDCl_3$) 163.0$^-$ ($^1J_{HF}$ 204.6, 3-ArC), 140.9$^-$ (1-ArC), 129.6$^+$ ($^3J_{HF}$ 7.8, 5-ArC), 123.7$^+$ (6-ArC), 114.9$^+$ ($^2J_{HF}$ 21.2), 114.6$^+$ ($^2J_{HF}$ 21.9), 86.9$^+$ (Ar*C*H) and 57.5$^+$ (Me); δ_F(235.4 MHz; $CDCl_3$; ^{1}H Decoupled) –113.9; *m/z* (EI) 247 (4.5%, M – OMe) and 139 (100, ArCHOMe)(Found: C, 69.1; H, 5.80. $C_{16}H_{16}F_2O_2$ requires C, 69.1; H, 5.80); $[\alpha]_D^{24}$ –50.8 (*c* 0.985 in CH_2Cl_2).

Space before units

Shift-Option-8

Note a space is needed here

Avoid construction: "To the...was added"

Where possible use the same number of sig. fig. for calculations as for measurements

Perkin prefers cm^3 to ml.

10 Point

Symbol Font Option-y

Italic only when it is a new compound

Or film / KBr / Nujol

Quote only assignalble peaks in IR

Yield of recrystallised material or of material used in next step

Or plates or cubes but not crystals

Largest coupling first. Triplet is 8.0 Hz and doublet is 5.9 Hz

Quote all peaks in NMR. Avoid m unless it's really an indecipherable multiplet

Perkin prefers 5-H

From APT, $^-$ for even number of attached protons $^+$ for odd

Italic H only when ambiguous otherwise

(Option -) for Minus –

Do not *guess* assignments – it's bad science

Quote only assignable or strong peaks in MS

Round C, H, N to nearest 0.1% (or 0.05% for H)

Keep reference near to where it refers until last stage of writing up or use EndNote

Command [Backslash]O(^{24},$_D$) to achieve this. No "°" here

Italic

[XX] I. I. Lapkin, T. N. Povarnitsyna and L. A. Kosareva, *Zh. Obshch. Khim.*, 1969, **39**(7), 1460.

Known compounds: ... diether[XX] (4.71g, 98.3%) as needles, mp 88-88.5 °C (from Et_2O-hexane)(lit.,[XX] 89-90 °C). If the product is coloured then give its colour but there is no need to say that it's colourless. All new compounds need either a combustion analysis (correct to ±0.3%) or a high resolution MS. Many journals insist on combustion analysis. Known compounds do not need either. A racemic diastereomer: **(1*RS*, 2*RS*)-1,2-Bis(3-fluorophenyl)-1,2-dimethoxyethane**. Brackets within brackets {[()]}. IUPAC name of compound nust be somewhere, either in the heading or at the point where *diether* is in the example above. Convert all Symbol font to 11pt when finished.

Version 1.1 Feb 1999 Paul