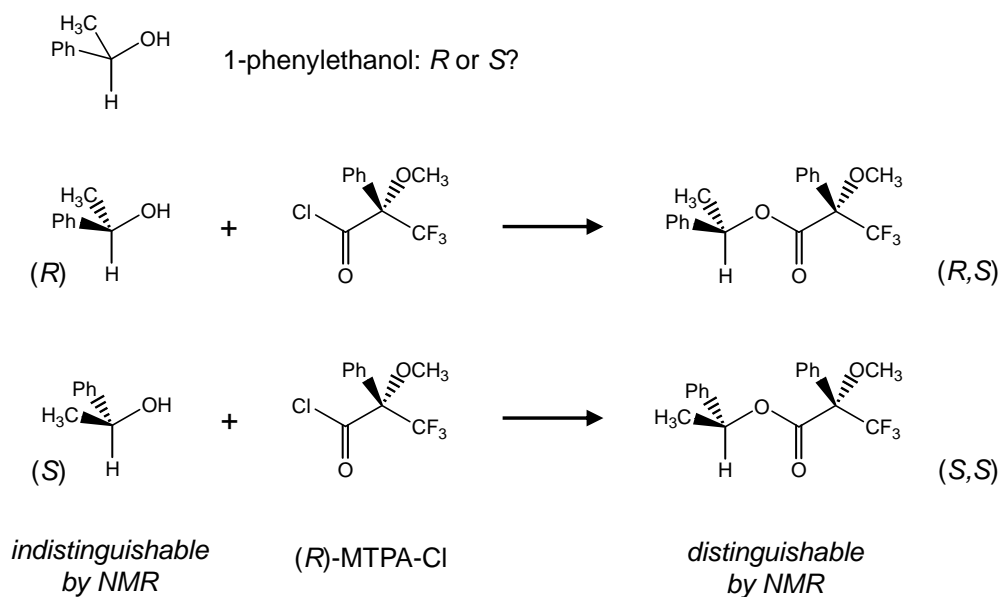
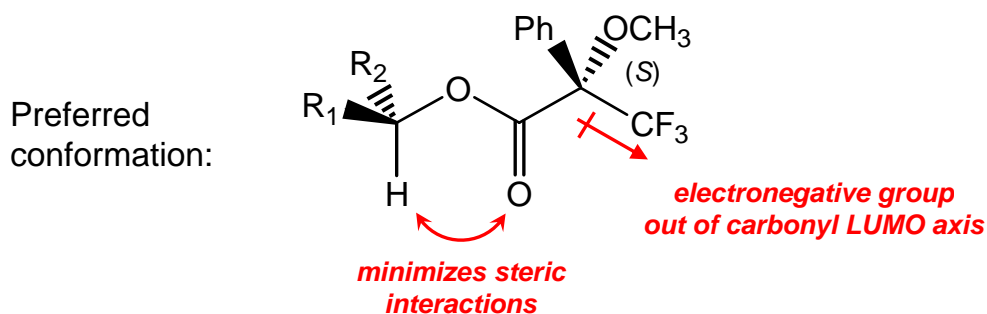


Chiral Derivatizing Agents for Absolute Stereochemistry Determination ("Mosher's Method")

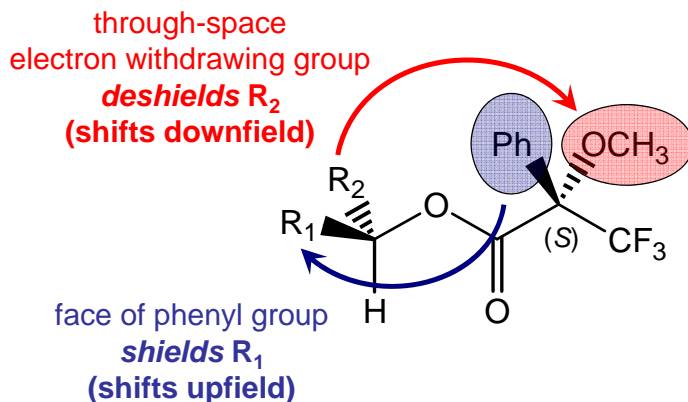


MTPA Esters as NMR-Distinguishable Chiral Derivatives



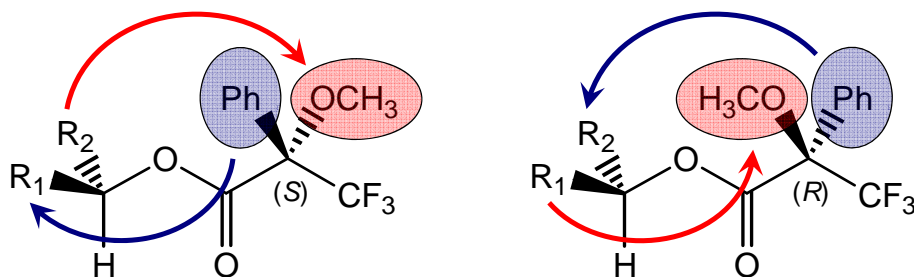
(Works best for secondary alcohols.)

MTPA Esters as NMR-Distinguishable Chiral Derivatives



(S)-MTPA ester group alters chemical shifts of R_1 , R_2 in a predictable way.

MTPA Esters as NMR-Distinguishable Chiral Derivatives



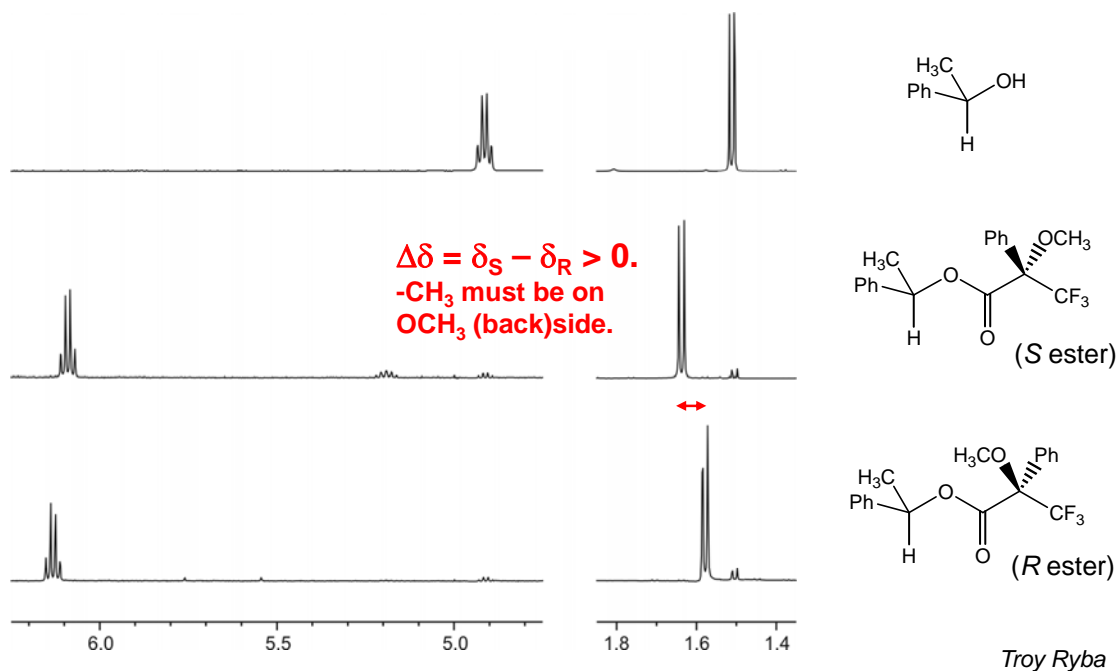
(R)-MTPA ester group has opposite effect on chemical shift.

So, if we define $\Delta\delta = \delta_S - \delta_R$,

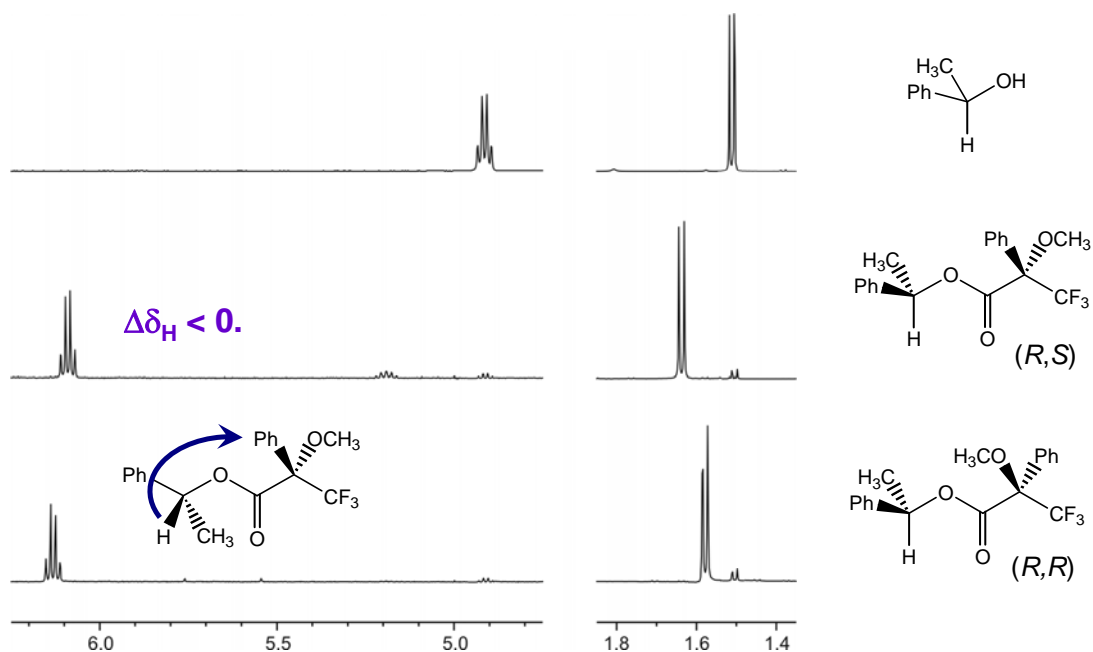
If a nucleus shows $\Delta\delta > 0$, must be R_2 .

$\Delta\delta < 0$, must be R_1 .

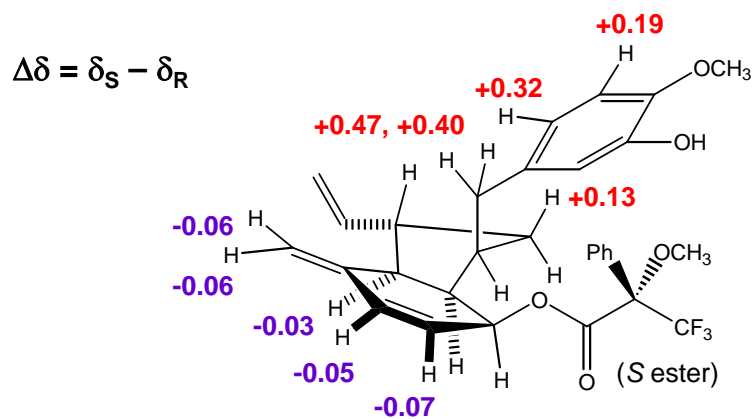
MTPA Esters as NMR-Distinguishable Chiral Derivatives



MTPA Esters as NMR-Distinguishable Chiral Derivatives



MTPA Esters as NMR-Distinguishable Chiral Derivatives



ottelione A (?)

Hollie Lewis

Other Chiral Derivatives and Complexing Agents

(There are lots.)

