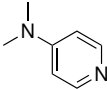
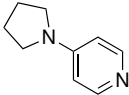


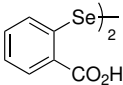
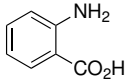
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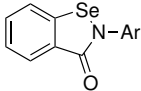
DMAP



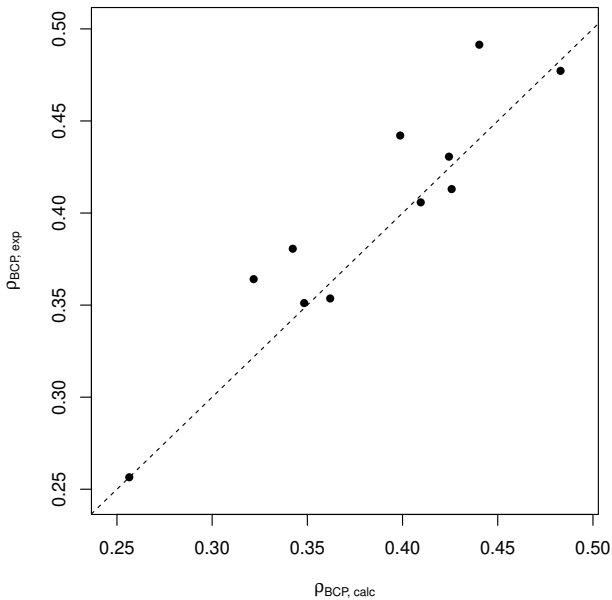
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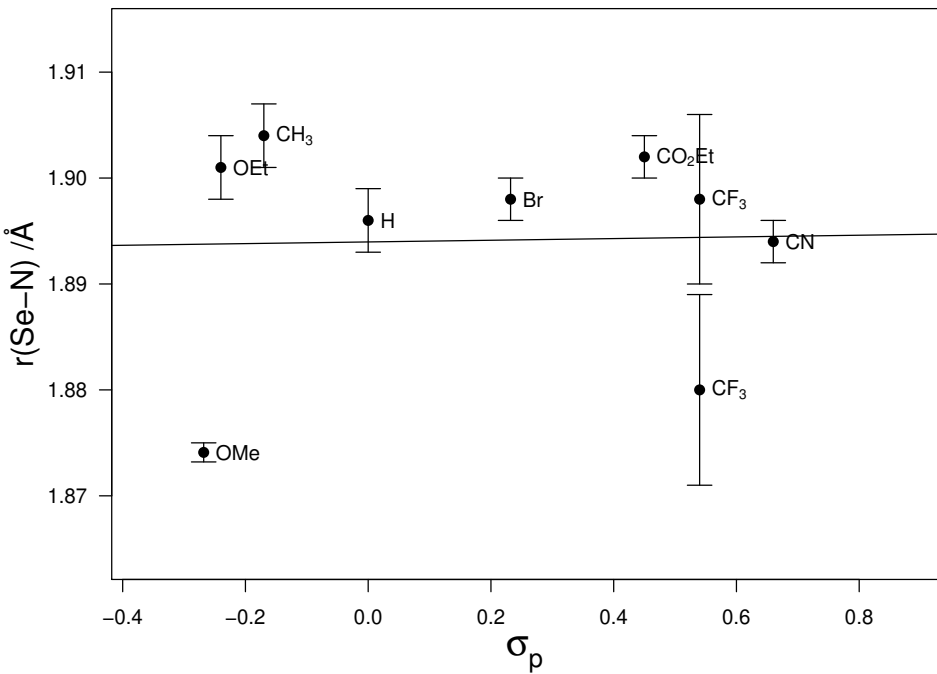


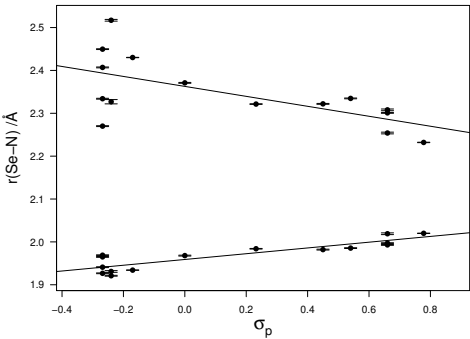
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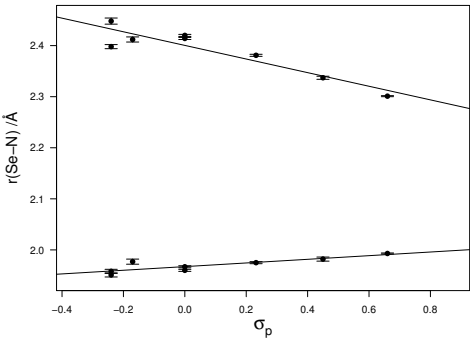


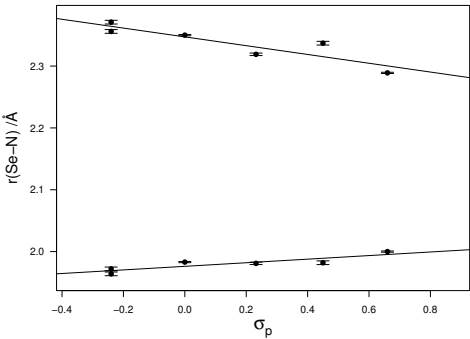
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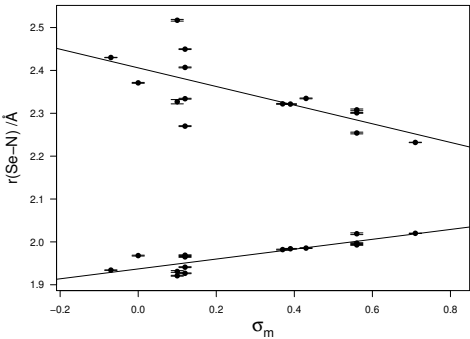


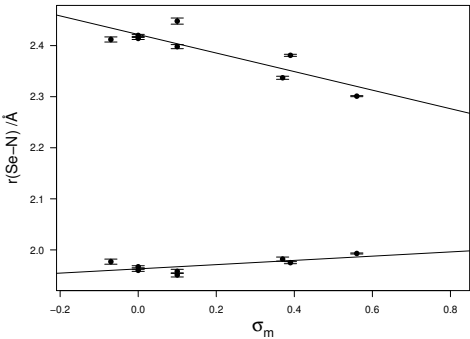


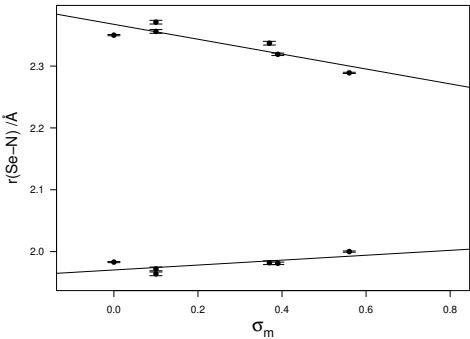


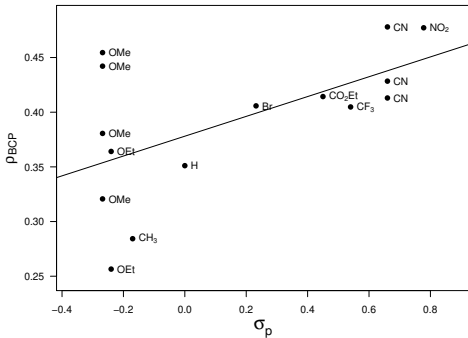


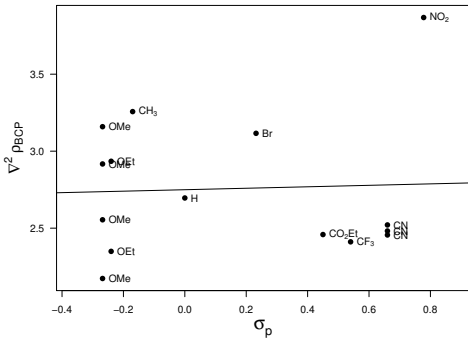


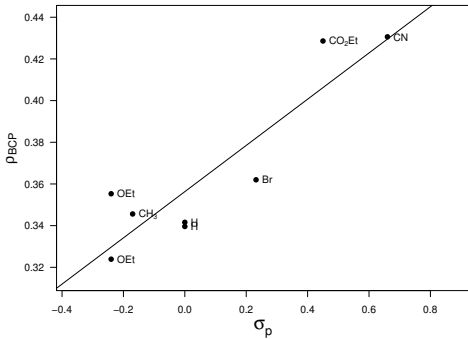


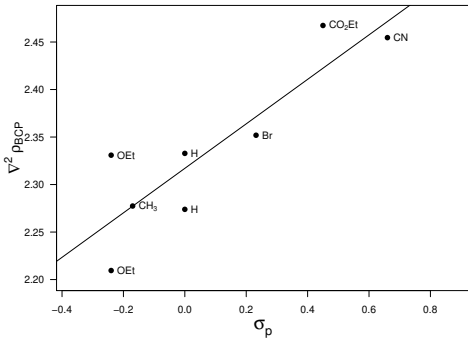


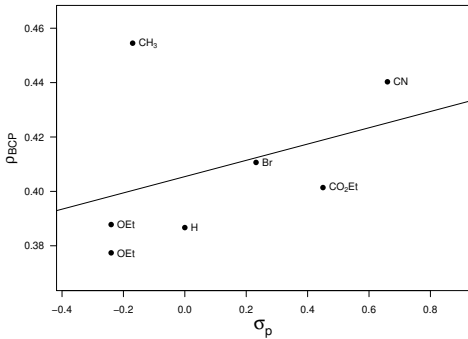


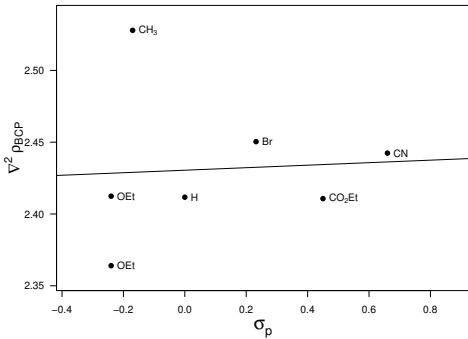


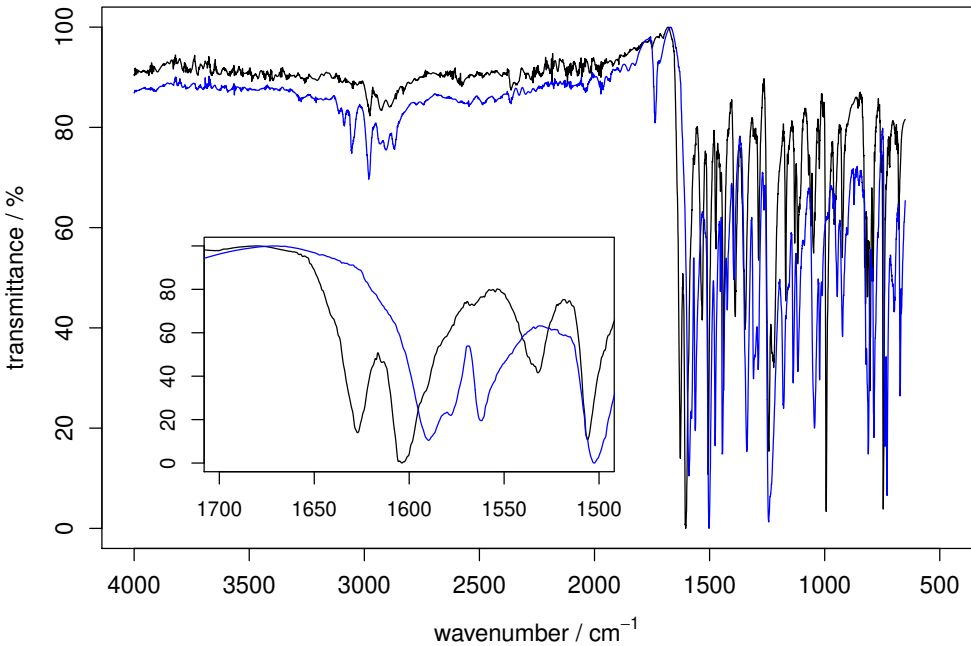


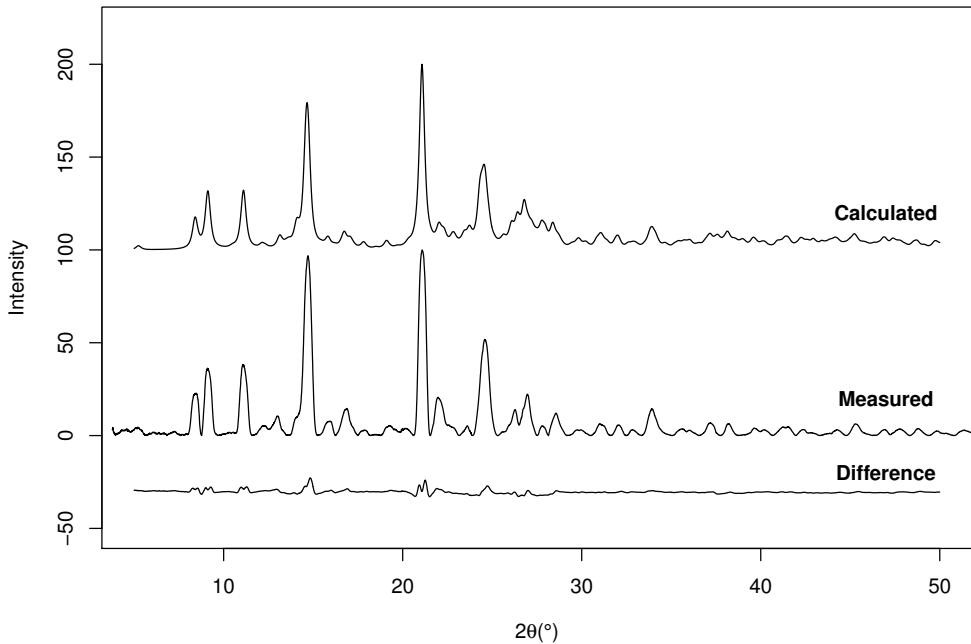


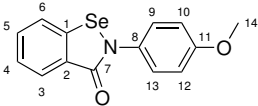
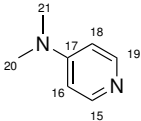


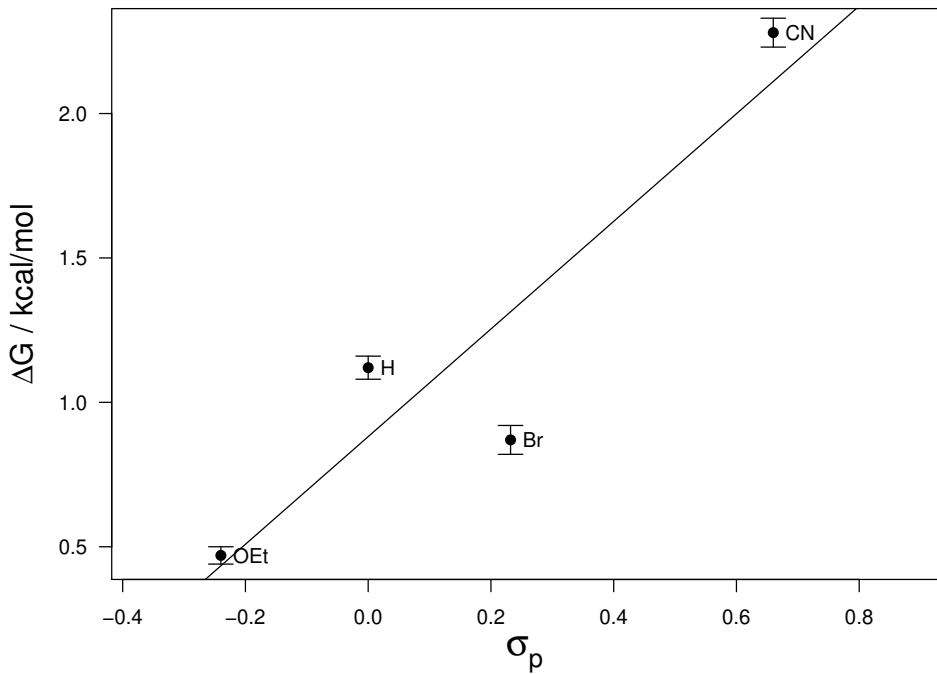


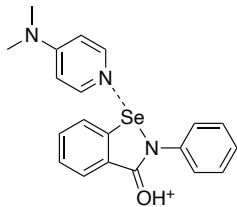






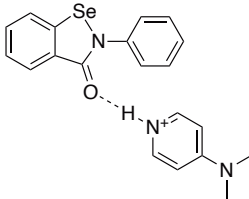




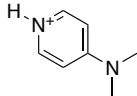


m/z: 398.08

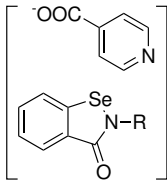
or



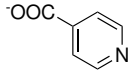
m/z: 398.08



m/z: 123.09



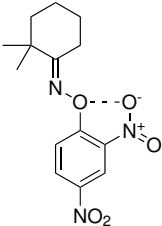
m/z : 397.01



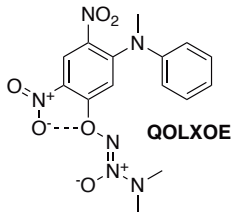
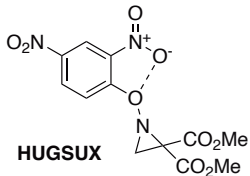
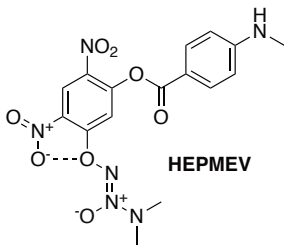
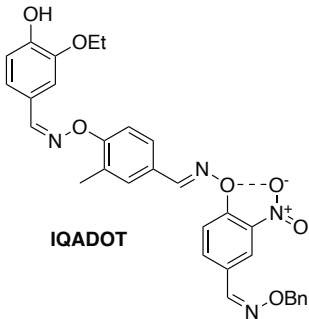
m/z : 122.02

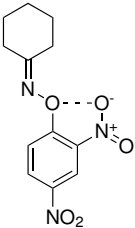
1 $R = \text{Ph}$

1a $R = \text{Bn}$

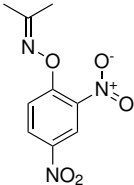


7

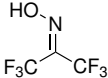
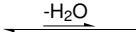
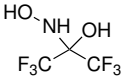


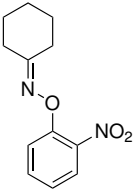


8

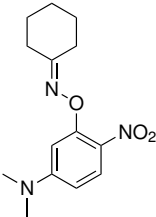


9

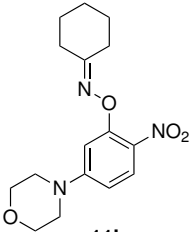




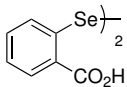
10



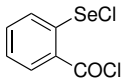
11a



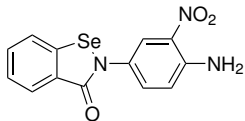
11b



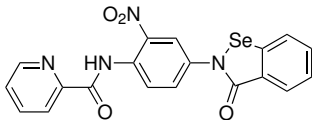
5



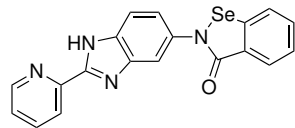
6



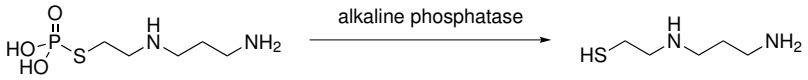
15

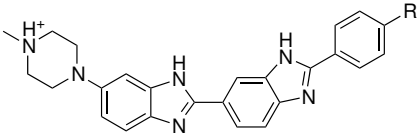


14



13

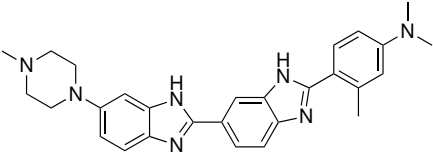


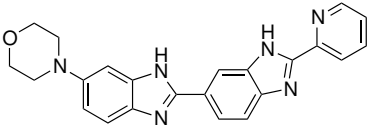


Hoechst 33258 R: OH

Hoechst 33342 R: OCH_2CH_3

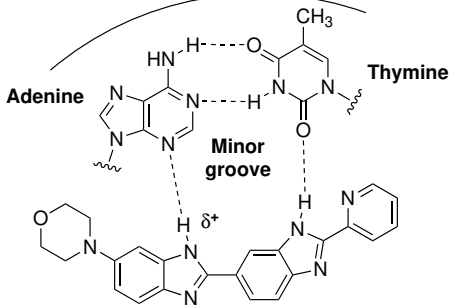
Hoechst 34580 R: $\text{N}(\text{CH}_3)_2$



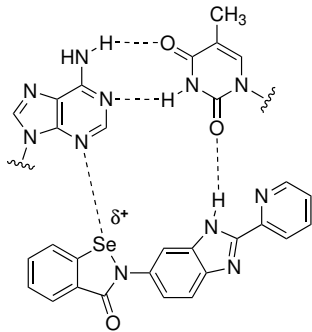


12

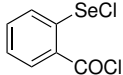
Major groove



12



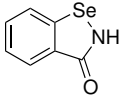
13



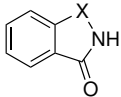
6

NH₃ (aq)

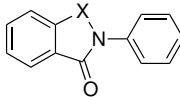
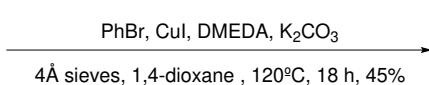
MeCN, rt, 10 min, 87%



1b

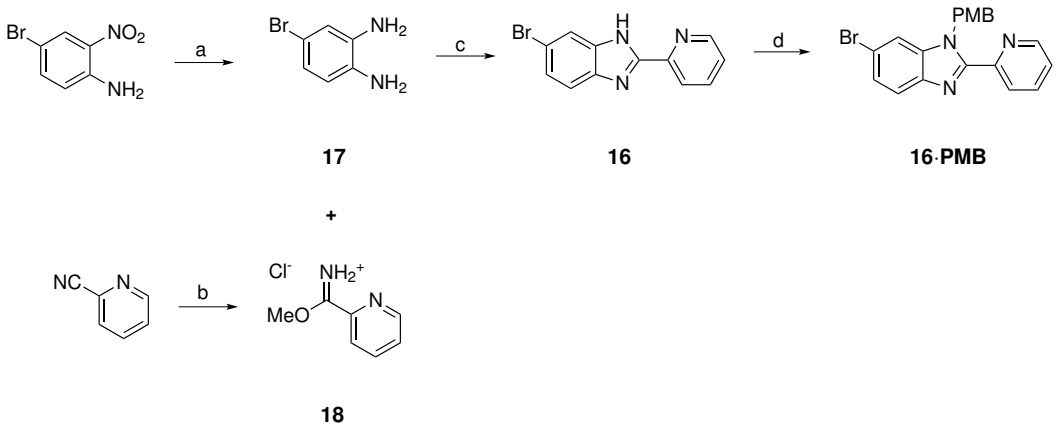


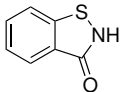
1b and 1b-S



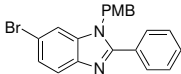
1 and 1-S

X = S, Se





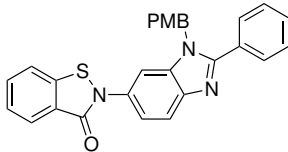
1b-S



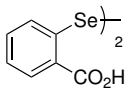
19-PMB

CuI, DMEDA, K₂CO₃

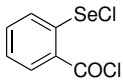
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



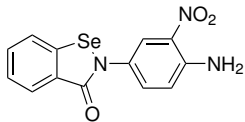
20-S-PMB



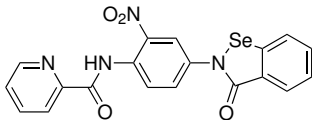
5



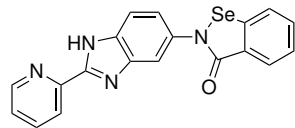
6



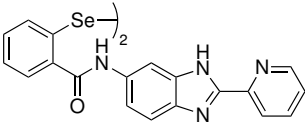
15



14



13



21

