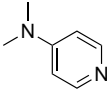
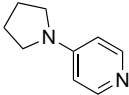


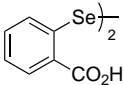
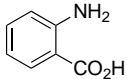
4a



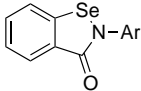
DMAP



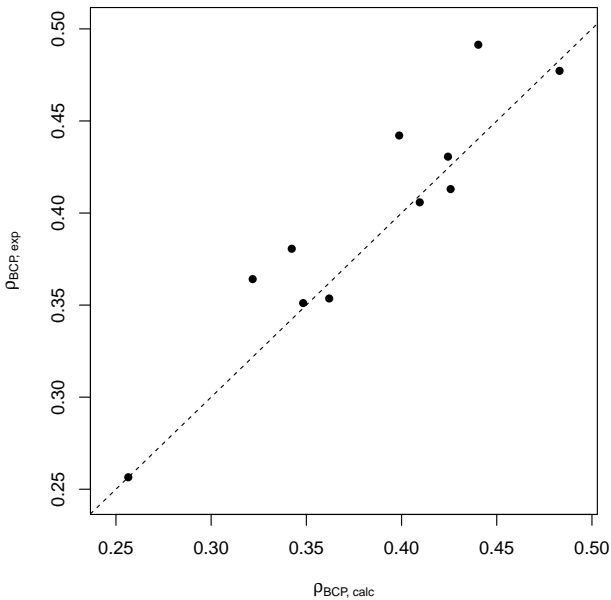
4b

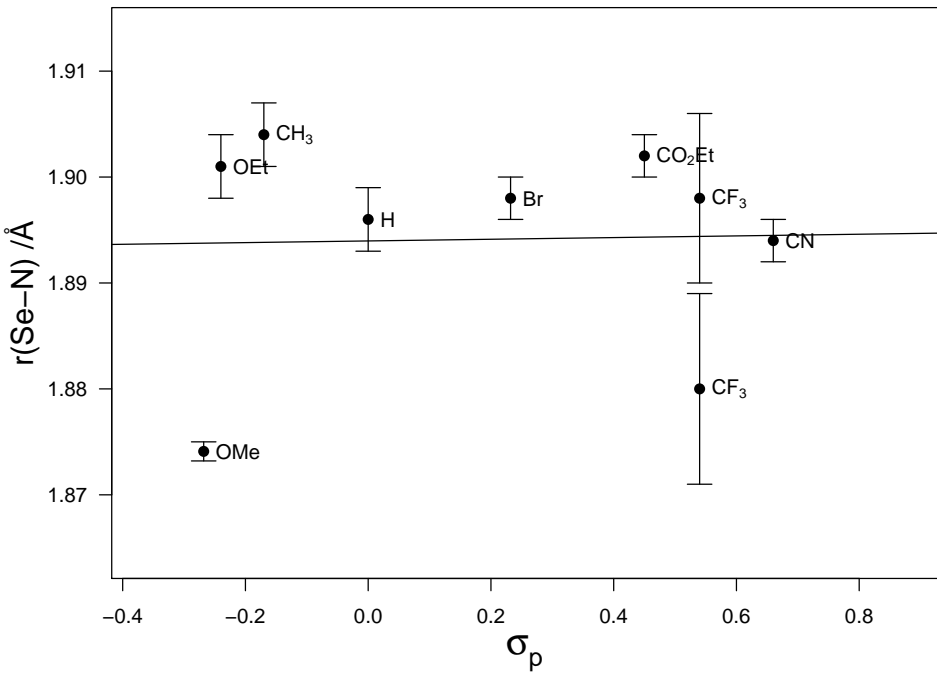


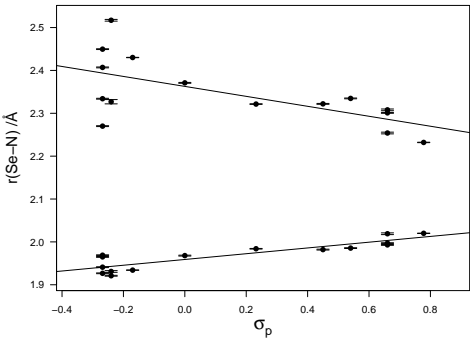
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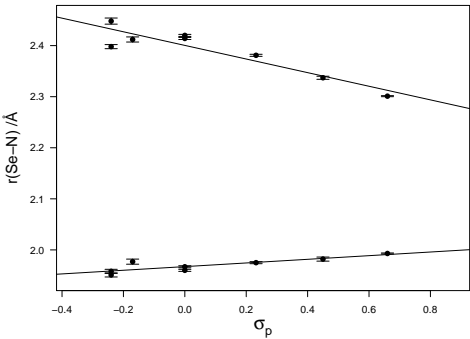


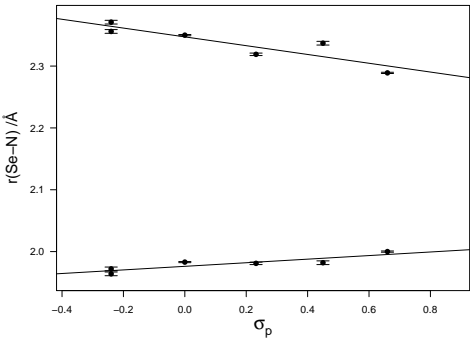
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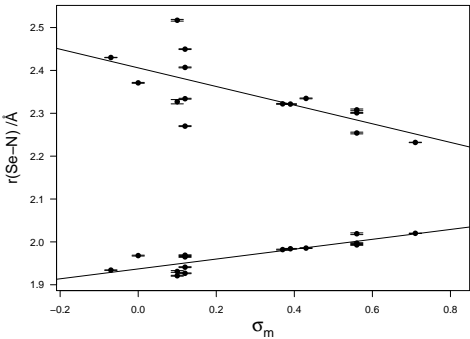


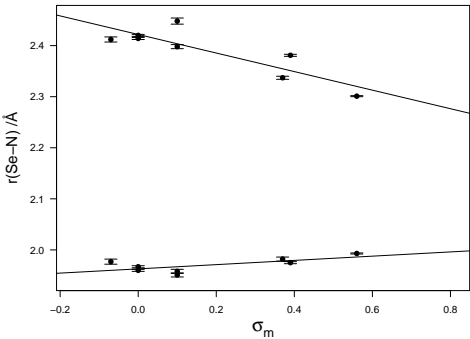


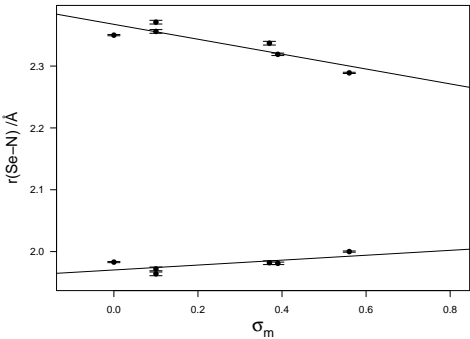


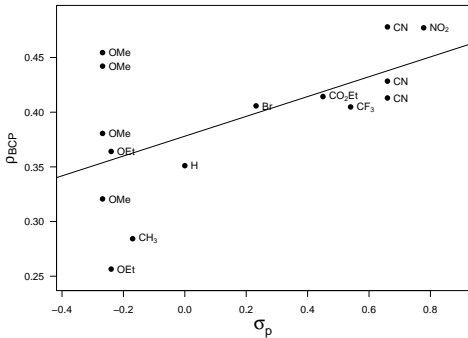


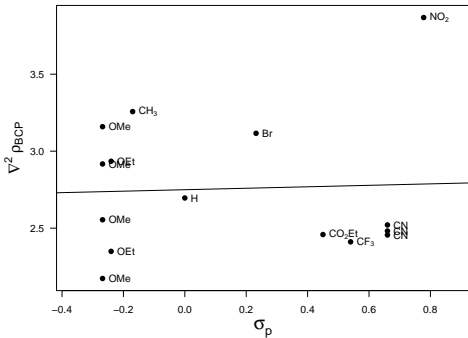


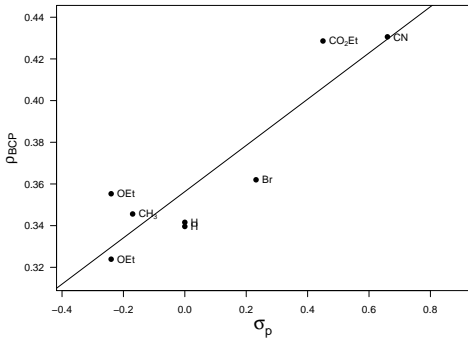


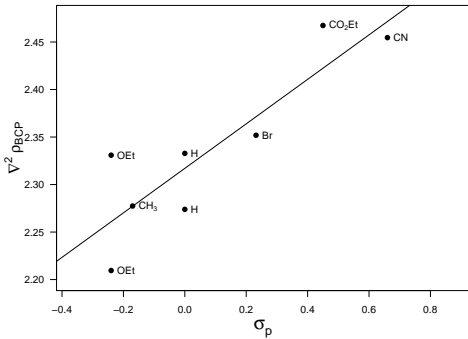


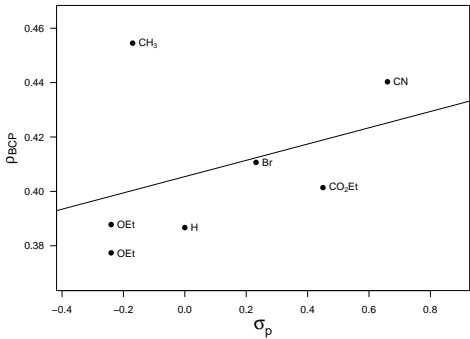


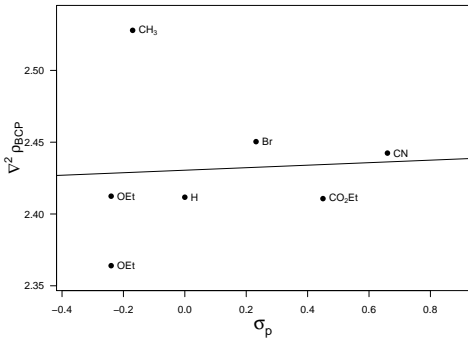


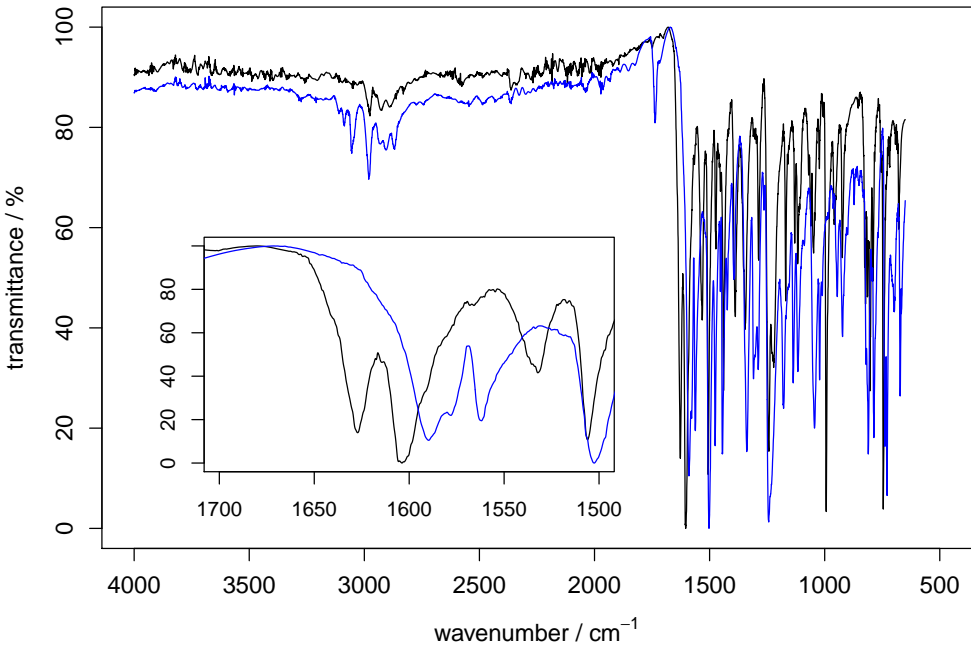


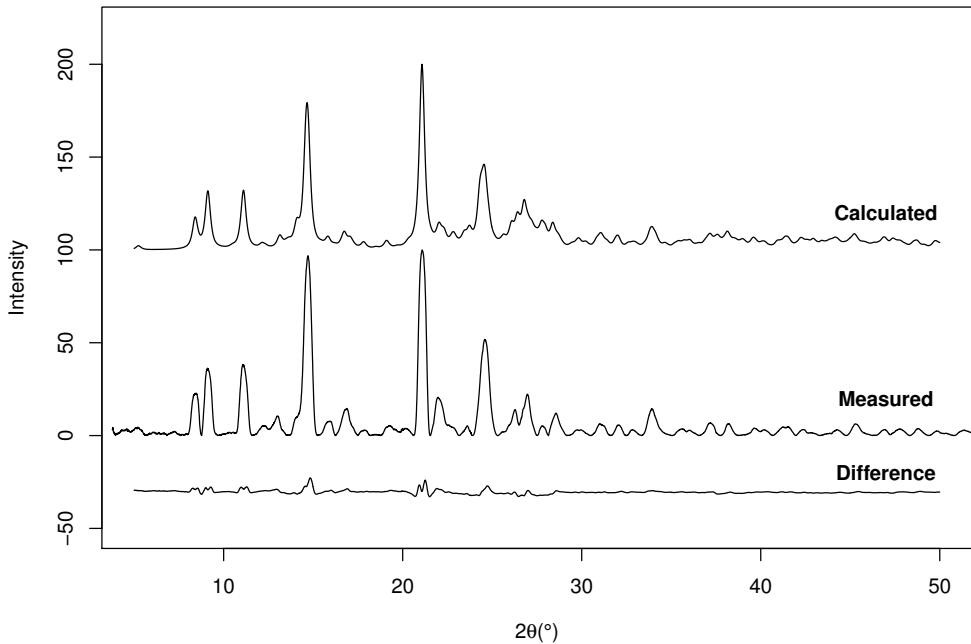


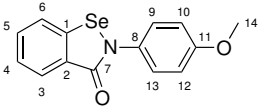
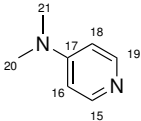


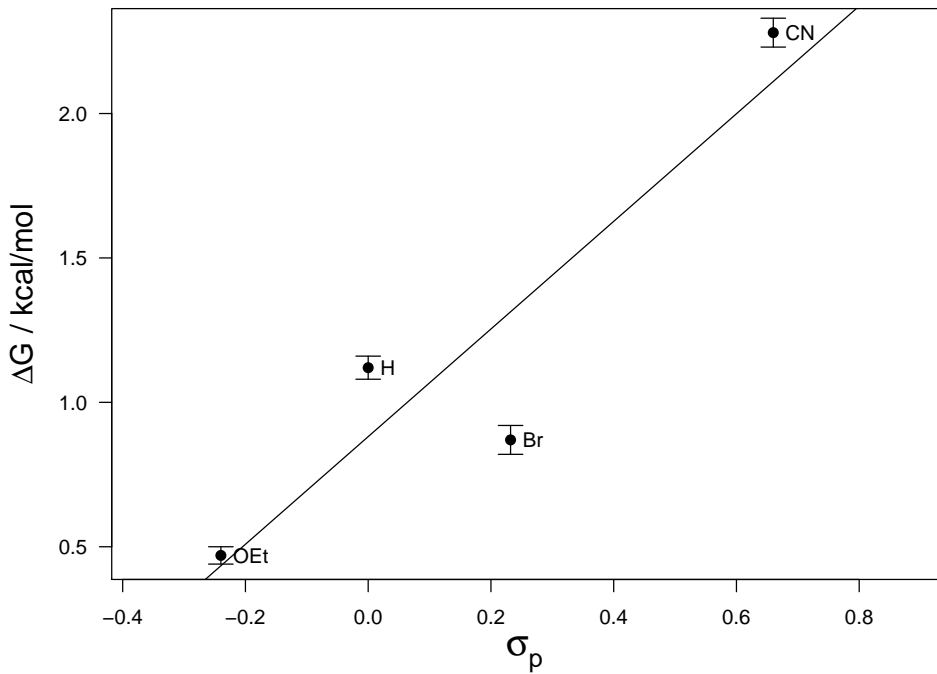


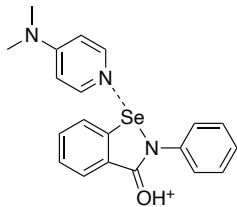






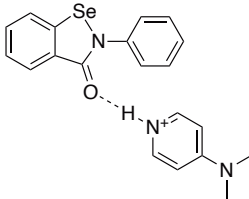




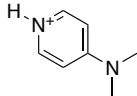


m/z : 398.08

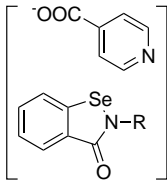
or



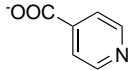
m/z : 398.08



m/z : 123.09



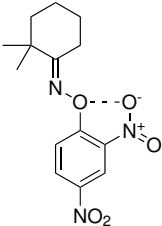
m/z: 397.01



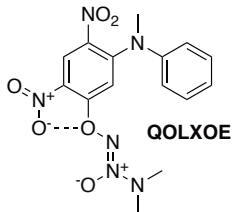
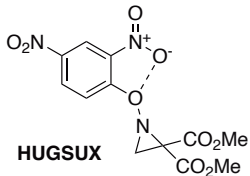
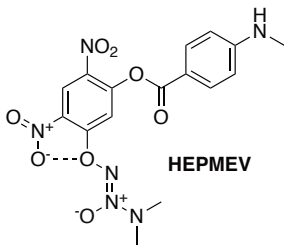
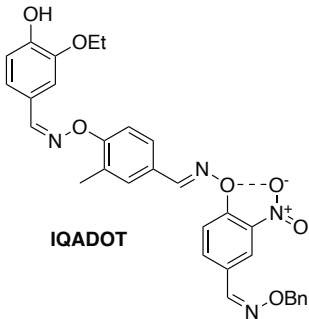
m/z: 122.02

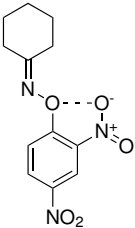
1 R = Ph

1a R = Bn

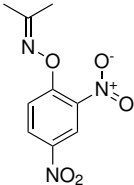


7

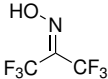
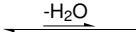
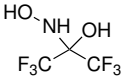


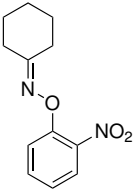


8

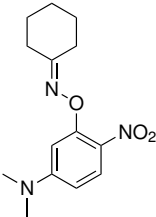


9

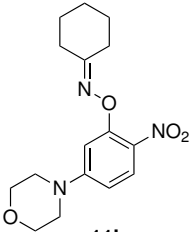




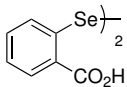
10



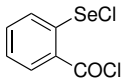
11a



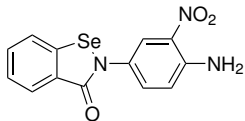
11b



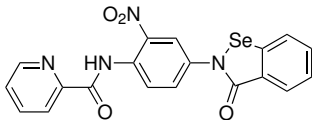
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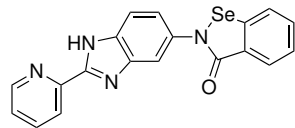
6



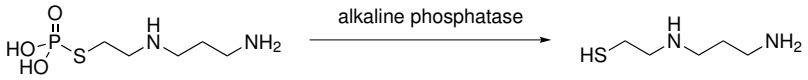
15

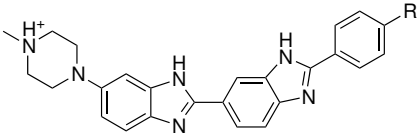


14



13

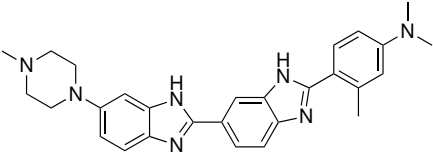


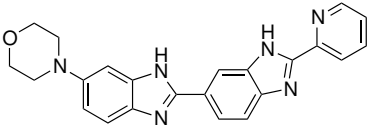


Hoechst 33258 R: OH

Hoechst 33342 R: OCH_2CH_3

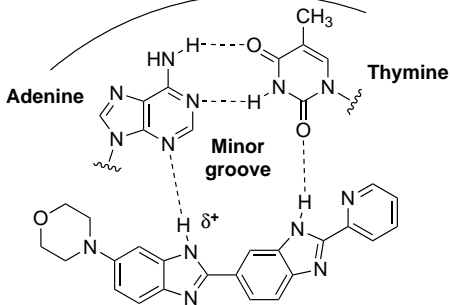
Hoechst 34580 R: $\text{N}(\text{CH}_3)_2$



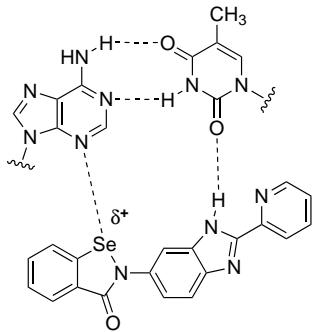


12

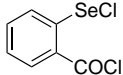
Major groove



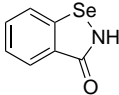
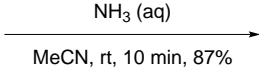
12



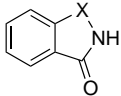
13



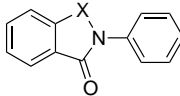
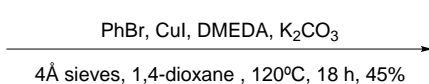
6



1b

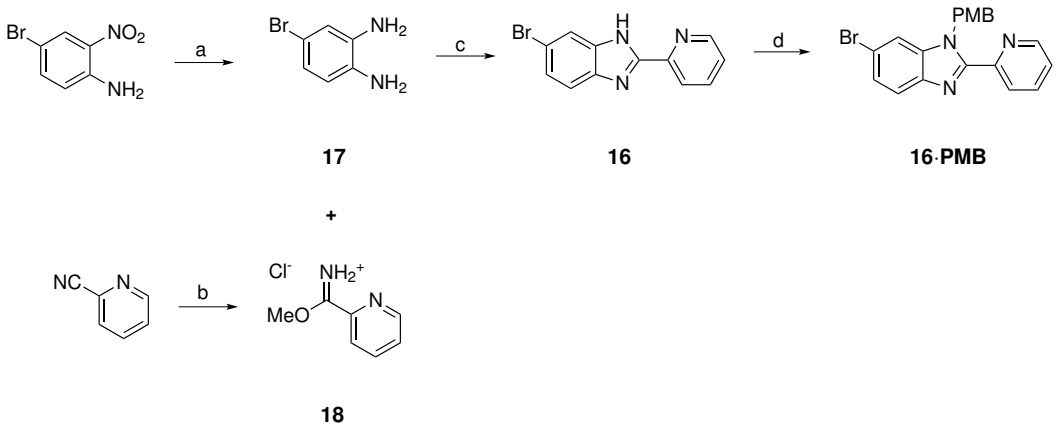


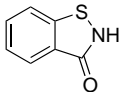
1b and 1b-S



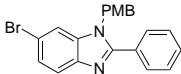
1 and 1-S

$X = S, Se$





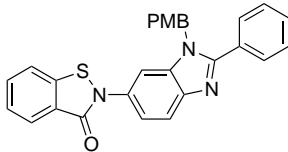
1b-S



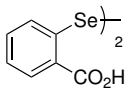
19-PMB

CuI, DMEDA, K₂CO₃

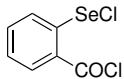
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



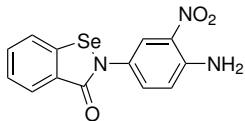
20-S-PMB



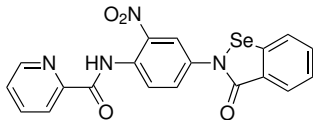
5



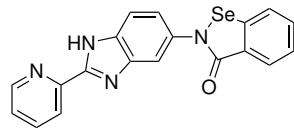
6



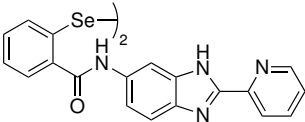
15



14



13



21

