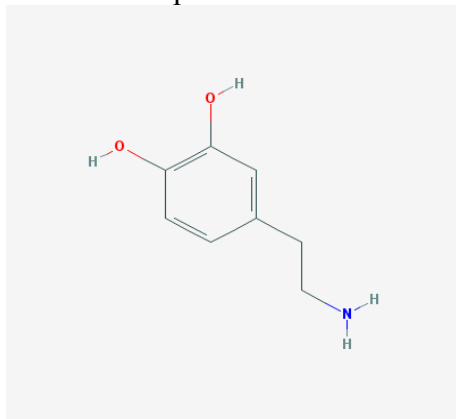


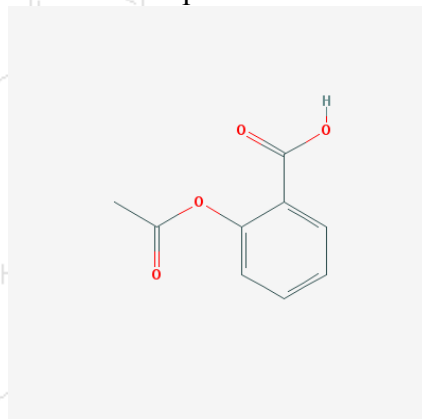
CHEM106 PS2

1. McQuarrie 7-35
2. McQuarrie 7-37
3. McQuarrie 7-43
4. McQuarrie 15-17
5. McQuarrie 15-19
6. McQuarrie 14-11
7. McQuarrie 14-29
8. McQuarrie 14-41
9. McQuarrie 14-57
10. Clearly show and label the Hydrogen Bond Donor (HBD) and Hydrogen Bond Acceptor (HBA) sites for each of these molecules

Dopamine



Aspirin



11. Look up the boiling points for n-hexane, n-octane, n-decane, n-dodecane and clearly explain why they are different.
12. n-Octane and 2,2,4 trimethyl pentane both have the same molecular formula (C₈H₁₈). Find the boiling points for each of these substances, then draw the Lewis structure for each. Finally, clearly explain and use a diagram to describe the scientific basis for their difference in boiling points.