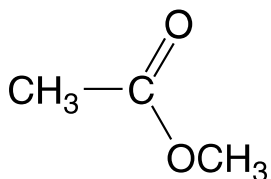
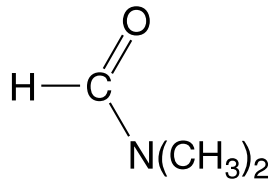


# Physical Properties

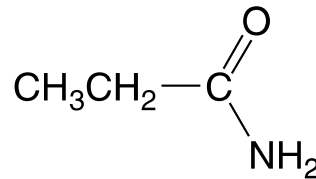
1° and 2° amides have higher boiling points than 3° amides and esters because of intermolecular hydrogen bonding.



ester  
bp 58 °C



3° amide  
bp 153 °C



1° amide  
bp 213 °C

hydrogen bonding possible

strongest intermolecular forces  
**highest boiling point**