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| --- | --- | --- | --- | --- |
| **Functional Group Ranking by Boiling Points** | | | | |
| **R = any number carbons in a hydrocarbon chain** | | | | |
| **Functional Group Name** | **Boiling Point** | **Polar Rank (most to least)** | **Structure** **Name** | **Name** |
| Amide | 222o | 1 | http://www.elmhurst.edu/~chm/vchembook/images/522ethanamide.gif | ethanamide |
| Acid | 118o | 2 | http://www.elmhurst.edu/~chm/vchembook/images/522ethanoicacid.GIF | ethanoic acid or acetic acid |
| Alcohol | 117o | 3 | **CH3CH2CH2OH** | propanol |
| Ketone | 56o | 4, 5 | http://www.elmhurst.edu/~chm/vchembook/images/522propanone.GIF | propanone or acetone |
| Aldehyde | 49o | 4, 5 | http://www.elmhurst.edu/~chm/vchembook/images/522propanal.GIF | propanal |
| Amine | 49o | 6 | **CH3CH2CH2NH2** | propylamine |
| Ester | 32o | 7 | http://www.elmhurst.edu/~chm/vchembook/images/522methylformate.gif | methyl  ethanoate |
| Ether | 11o | 8 | **CH3-O-CH2CH3** | methyl ethyl ether |
| Alkane | -42o | 9 | **CH3CH2CH3** | propane |