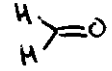
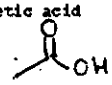
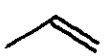
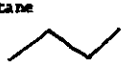
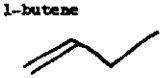
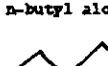
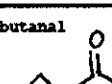
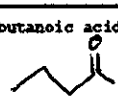
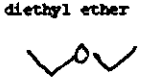
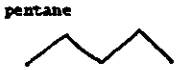
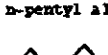
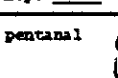
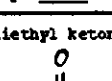
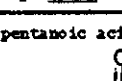
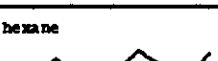
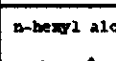
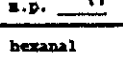
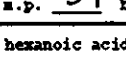
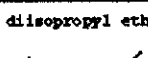
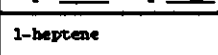
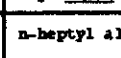
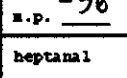
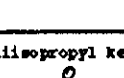
B.P. are more reliable than M.P. for measuring intermolecular forces - SEE GRAPH

	ALKANES	ALKENES	ALCOHOLS	ALDEHYDES	KETONES	CARB. ACIDS	ETHERS
1	methane  m.p. -183 b.p. -162		methyl alcohol  m.p. -97 b.p. 65	fromaldehyde  m.p. -92 b.p. -20		formic acid  m.p. -8 b.p. 107	
2	ethane m.p. -183 b.p. -89	ethene m.p. -169 b.p. -104	ethyl alcohol  m.p. -115 b.p. 78.5	acetylaldehyde  m.p. -121 b.p. 20		acetic acid  m.p. 17 b.p. 118	dimethyl ether  m.p. -140 b.p. -24
3	propane  m.p. -182 b.p. -42	propene  m.p. -185 b.p. -47	n-propyl alcohol  m.p. -127 b.p. 97	propanal  m.p. -81 b.p. 49	dimethyl ketone (acetone)  m.p. -94 b.p. 56	propanoic acid  m.p. -2 b.p. 144	
4	butane  m.p. -138 b.p. -0.5	1-butene  m.p. -165 b.p. -6	n-butyl alcohol  m.p. -90 b.p. 117	butanal  m.p. -99 b.p. 76	ethyl methyl ketone  m.p. -86 b.p. 80	butanoic acid  m.p. -6 b.p. 164	diethyl ether  m.p. -116 b.p. 35
5	pentane  m.p. -129 b.p. 36	1-pentene  m.p. -138 b.p. 30	n-pentyl alcohol  m.p. -79 b.p. 138	pentanal  m.p. -91 b.p. 133	diethyl ketone  m.p. -48 b.p. 103	pentanoic acid  m.p. -34 b.p. 186	
6	hexane  m.p. -95 b.p. 69	1-hexene  m.p. -140 b.p. 63	n-hexyl alcohol  m.p. -47 b.p. 158	hexanal  m.p. -56 b.p. 128		hexanoic acid  m.p. -3 b.p. 205	diisopropyl ether  m.p. -60 b.p. 69
7	heptane  m.p. -91 b.p. 98	1-heptene  m.p. -119 b.p. 94	n-heptyl alcohol  m.p. -34 b.p. 176	heptanal  m.p. -42 b.p. 154	diisopropyl ketone  m.p. -85 b.p. 151	heptanoic acid m.p. -8 b.p. 223	
8	octane m.p. -57 b.p. 126	1-octene m.p. -102 b.p. 121	n-octyl alcohol m.p. -17 b.p. 195	octanal m.p. ____ b.p. 171		octanoic acid m.p. 11 b.p. 239	di-t-butyl ether m.p. ____ b.p. ____
	v.d.W.	v.d.W.	v.d.W. dipole H-bond	v.d.W. DIPOLE	v.d.W. DIPOLE	v.d.W. dipole H-BOND	v.d.W. dipole

increase of attraction due to v.d.W. increase