Table of Spectra

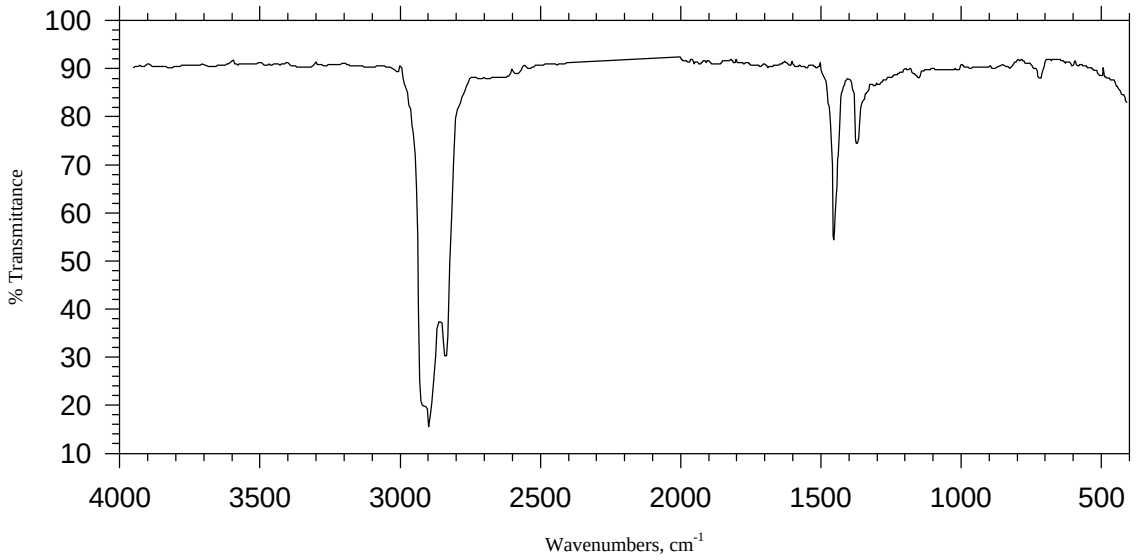


Figure 5. Nujol; thin film (Nujol is a trade name for mineral oil which is a long chain alkane)

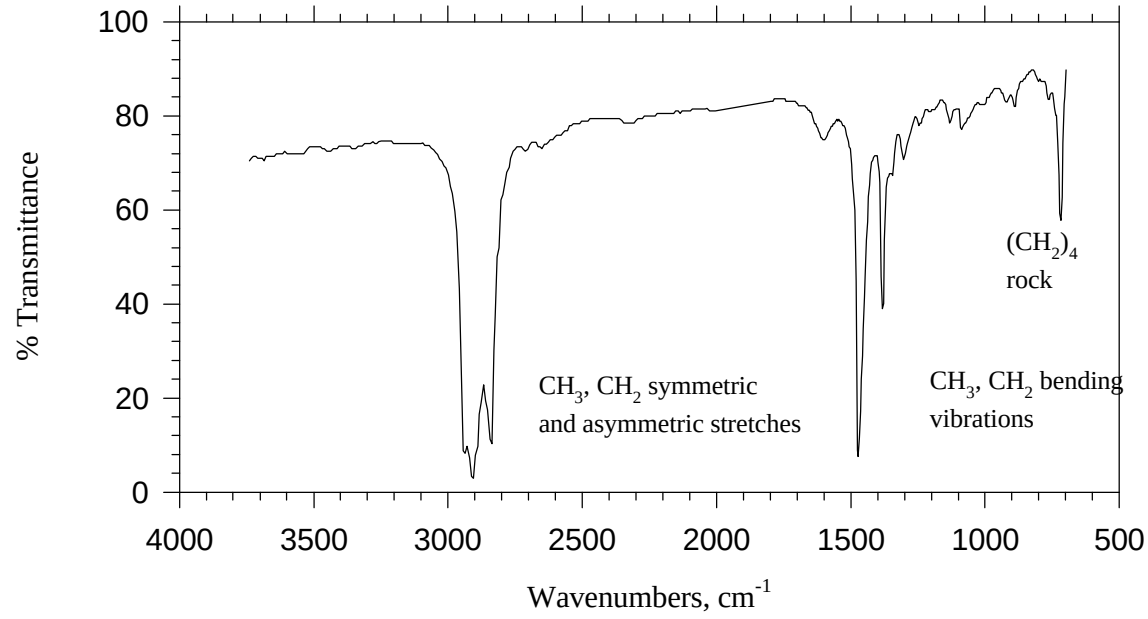


Figure 6. N-Decane, neat liquid, thin film: $CH_3CH_2CH_2CH_2CH_2CH_2CH_2CH_2CH_2CH_3$

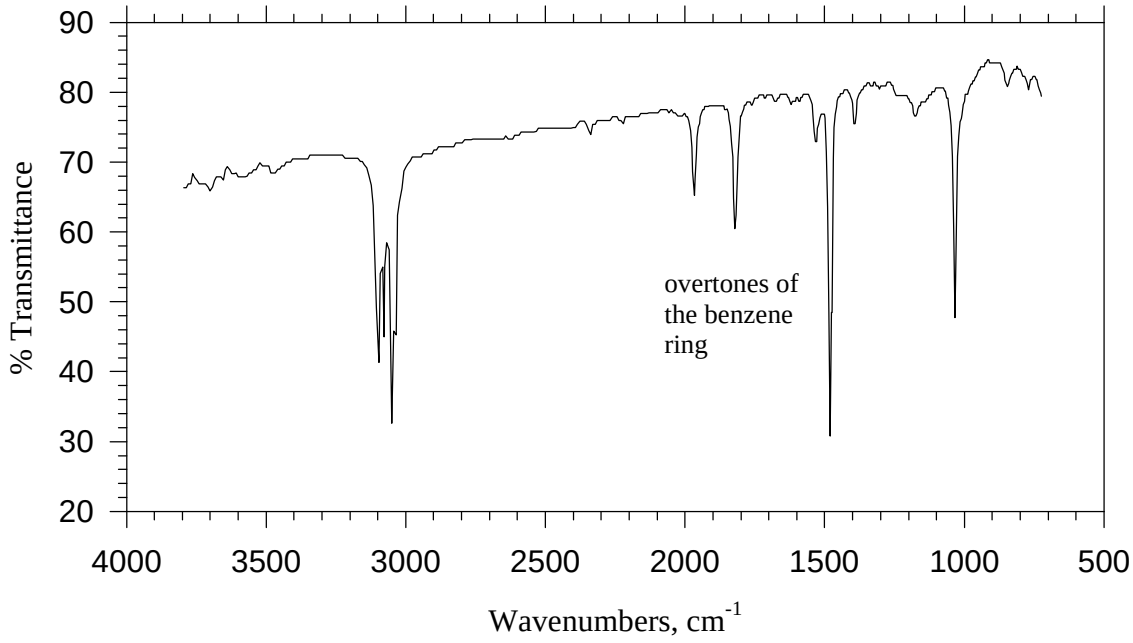
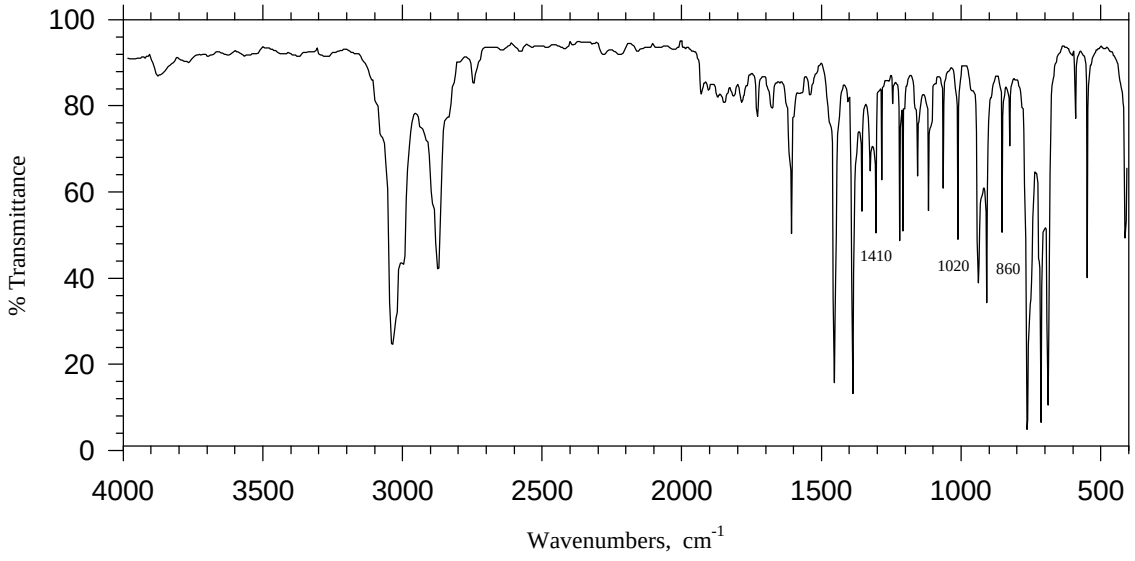


Figure 7. Benzene, neat, thin film:



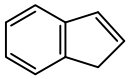


Figure 8. Indene; neat; 0.05 mm cell:

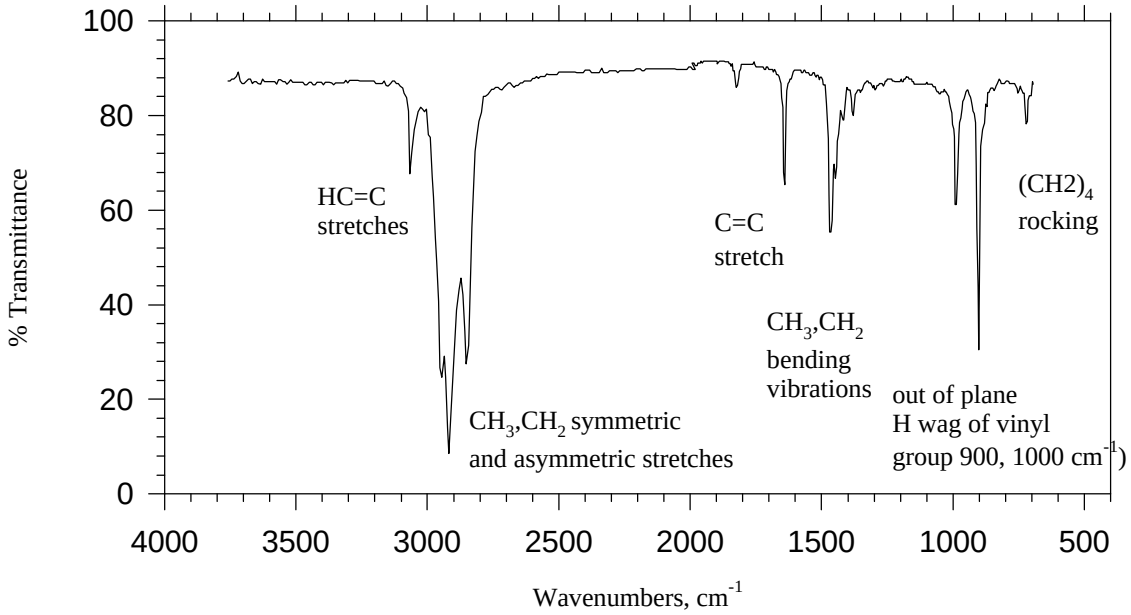


Figure 9. 1-Heptene; neat sample, thin film: $H_2C=CH-CH_2CH_2CH_2CH_2CH_3$

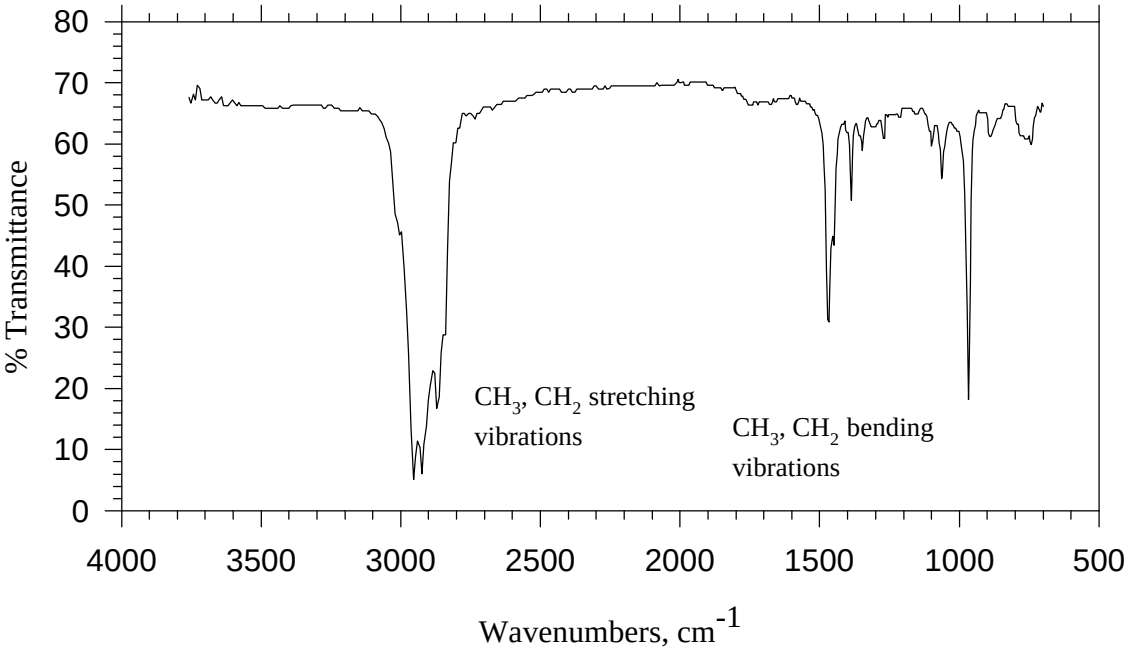
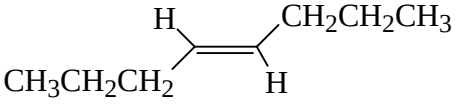


Figure 10. *trans* -4-Octene, neat liquid, thin film:



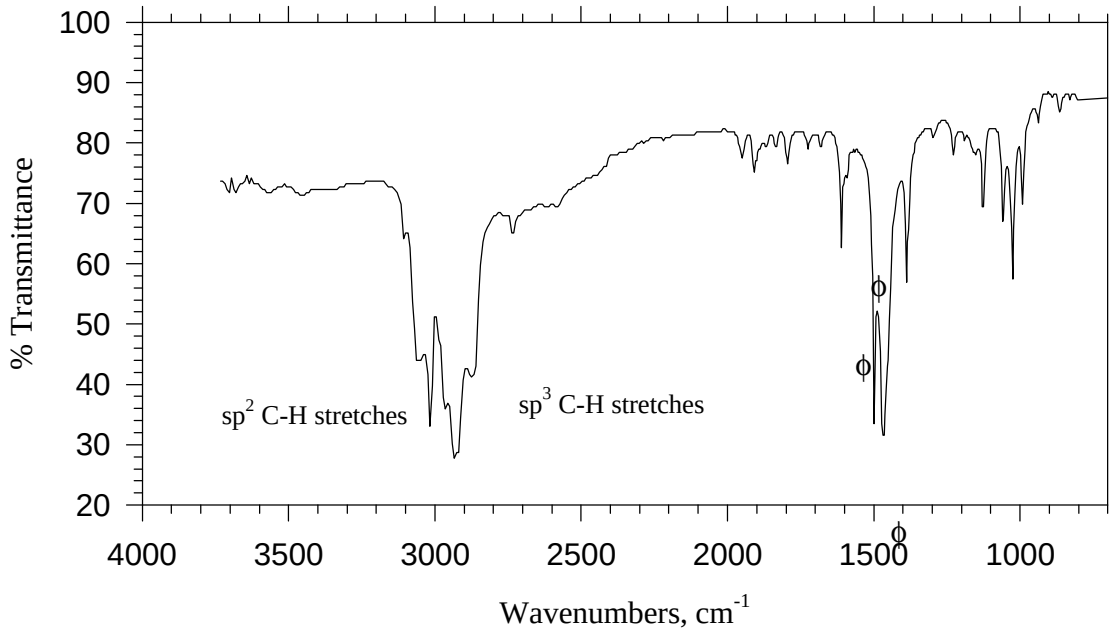
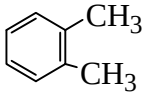


Figure 11. *ortho*-Xylene, neat, thin film:



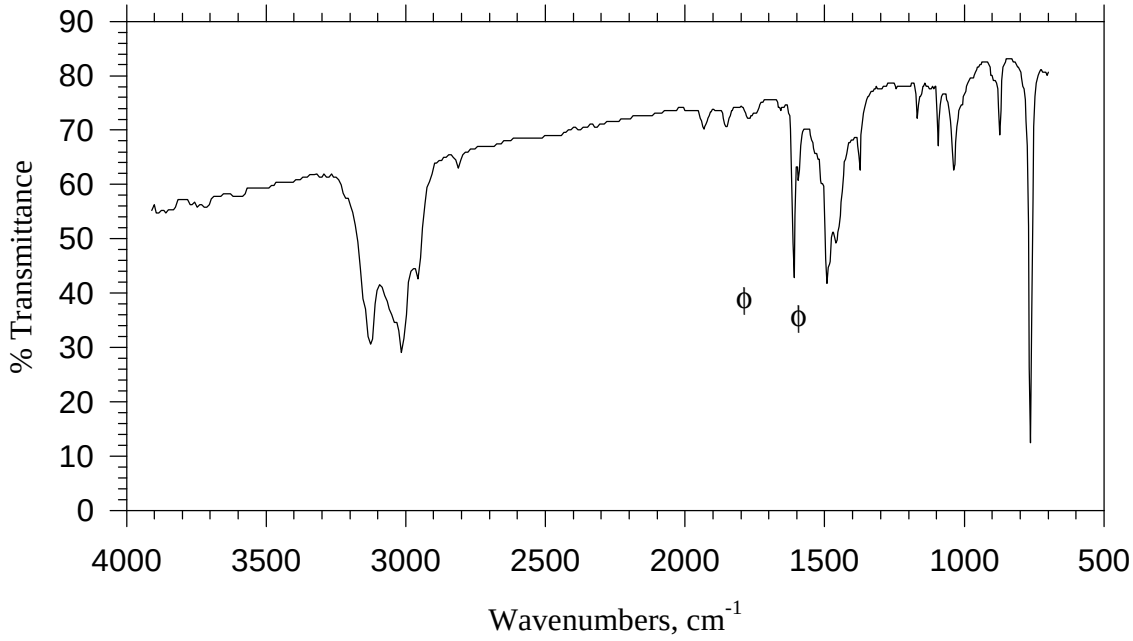
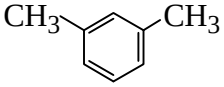


Figure 12. *meta*-Xylene, neat, thin film:



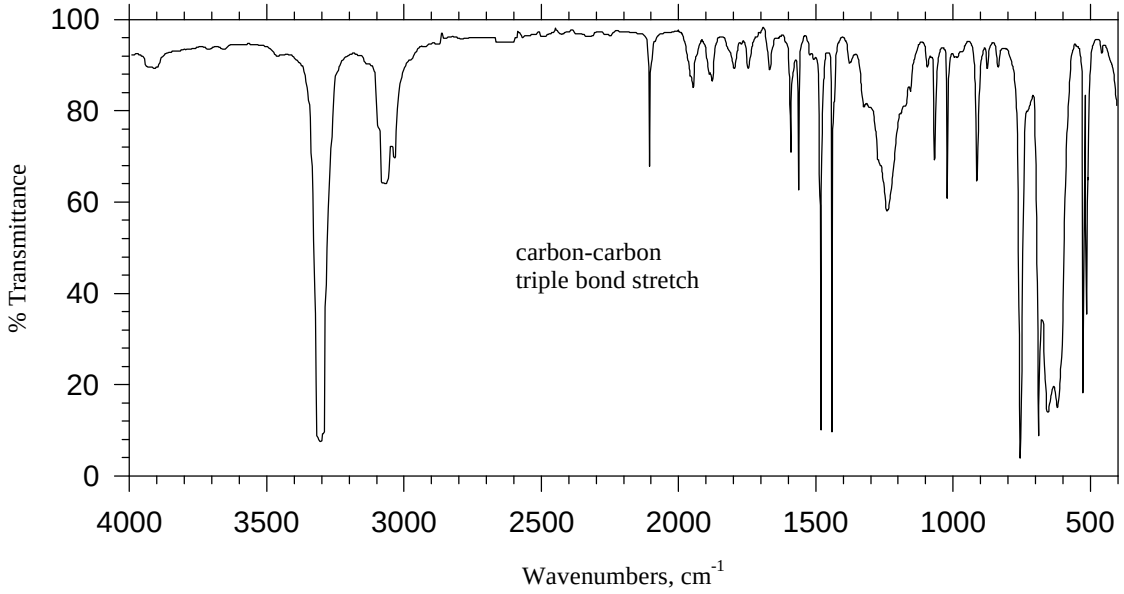
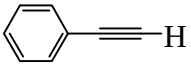


Figure 13. Phenylacetylene, neat liquid; thin film:



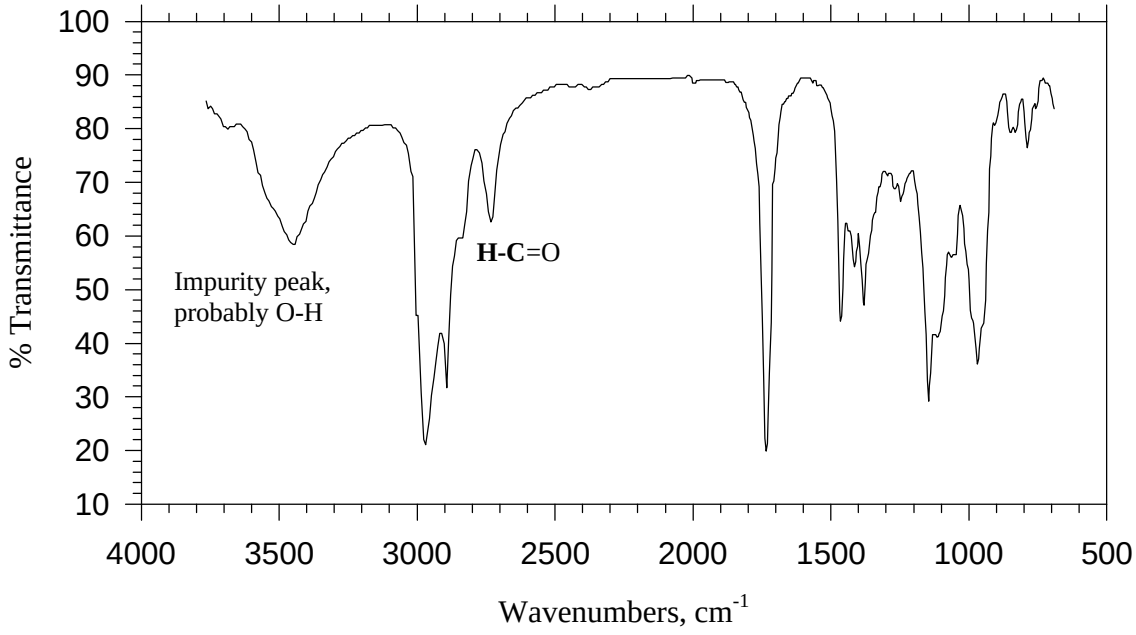
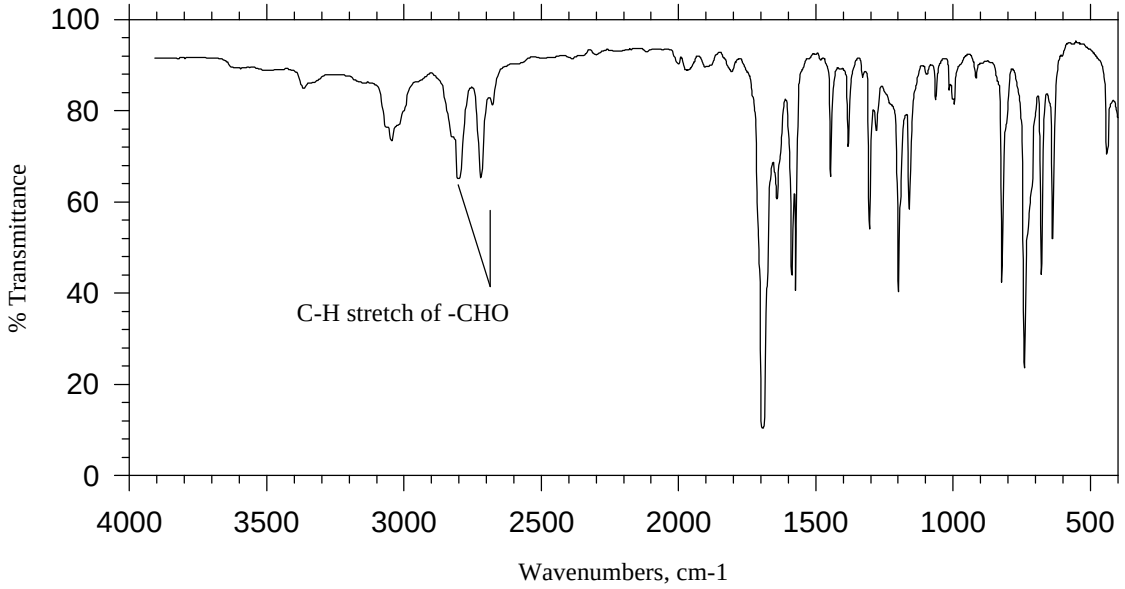


Figure 14. Butanal, neat liquid, thin film: $CH_3CH_2CH_2CHO$



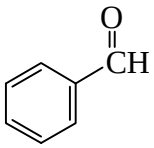


Figure 15. Benaldehyde, neat, thin film:

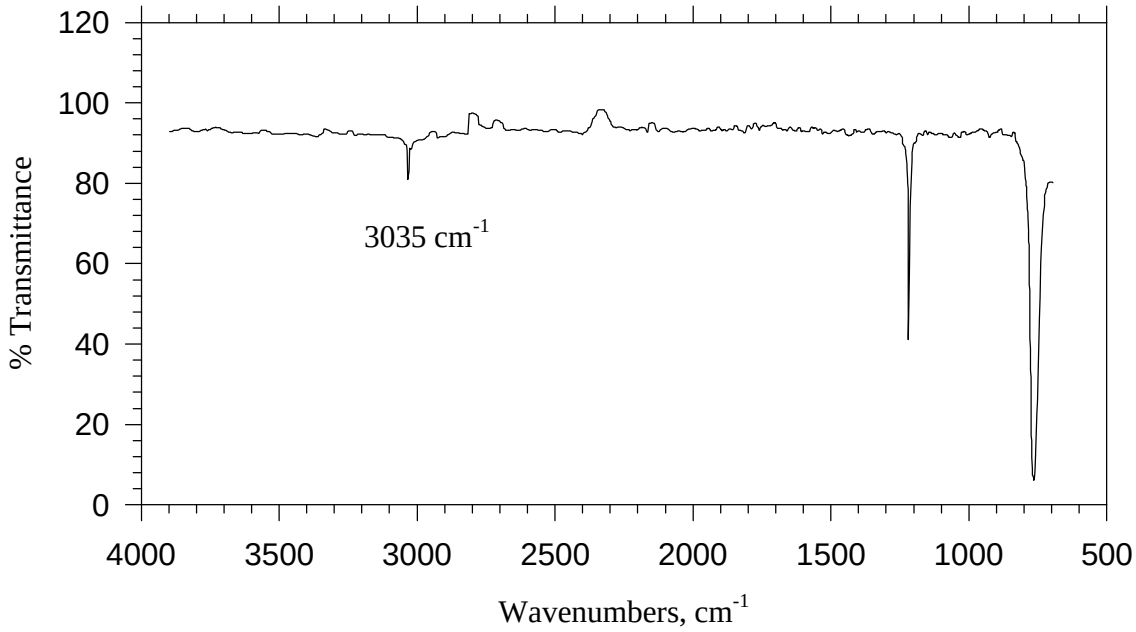
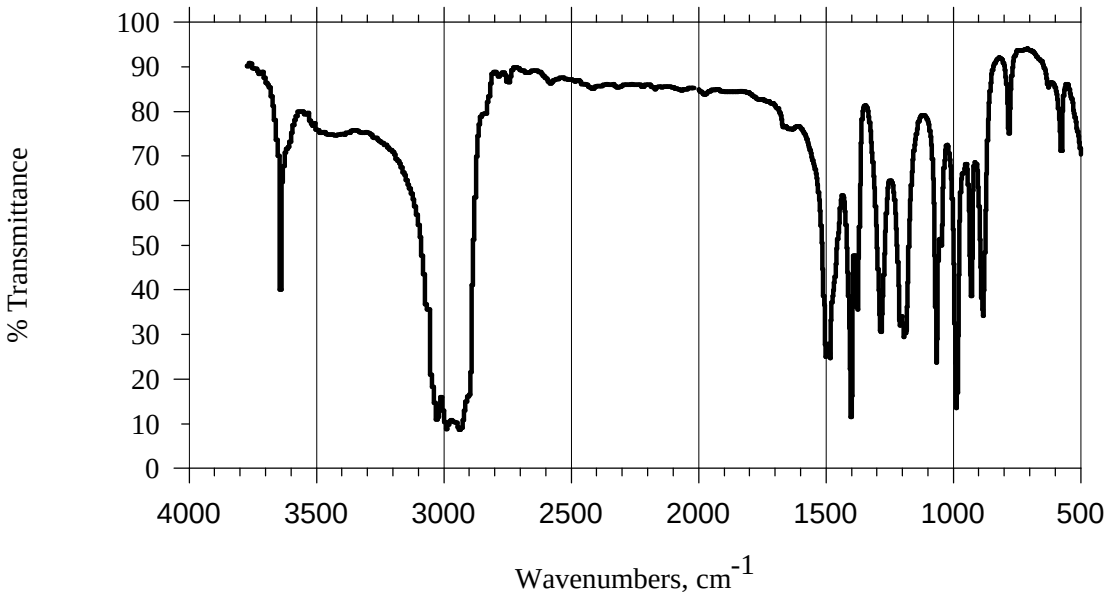


Figure 16. Chloroform, thin film: $CHCl_3$



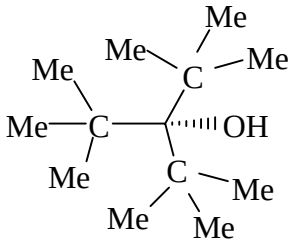


Figure 17. Tri-t-butylmethanol, KBr pellet:

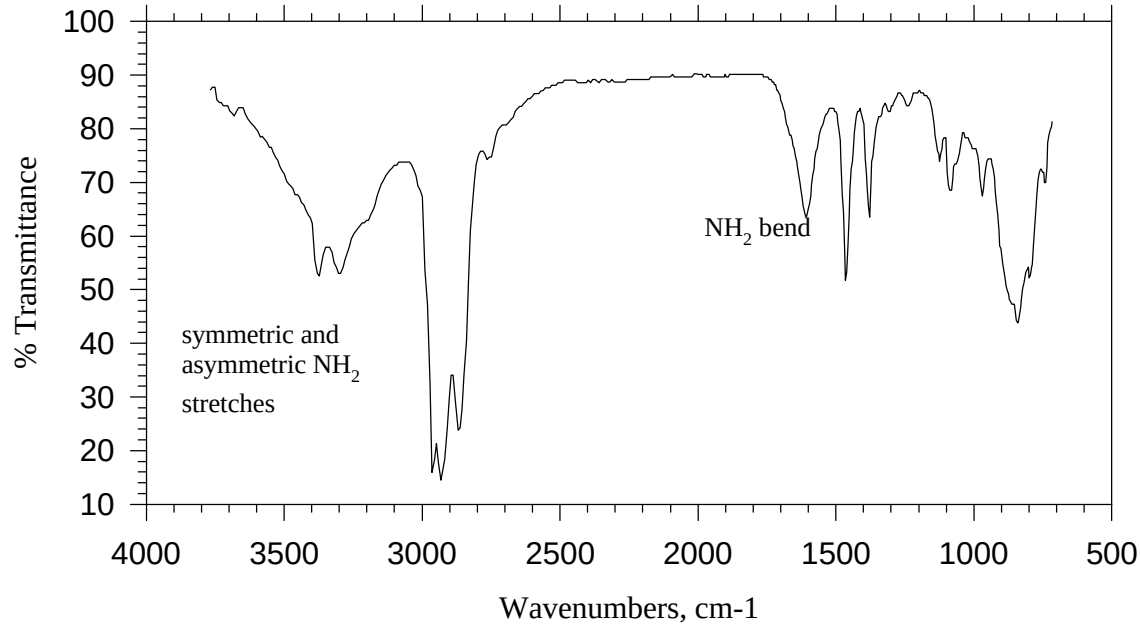
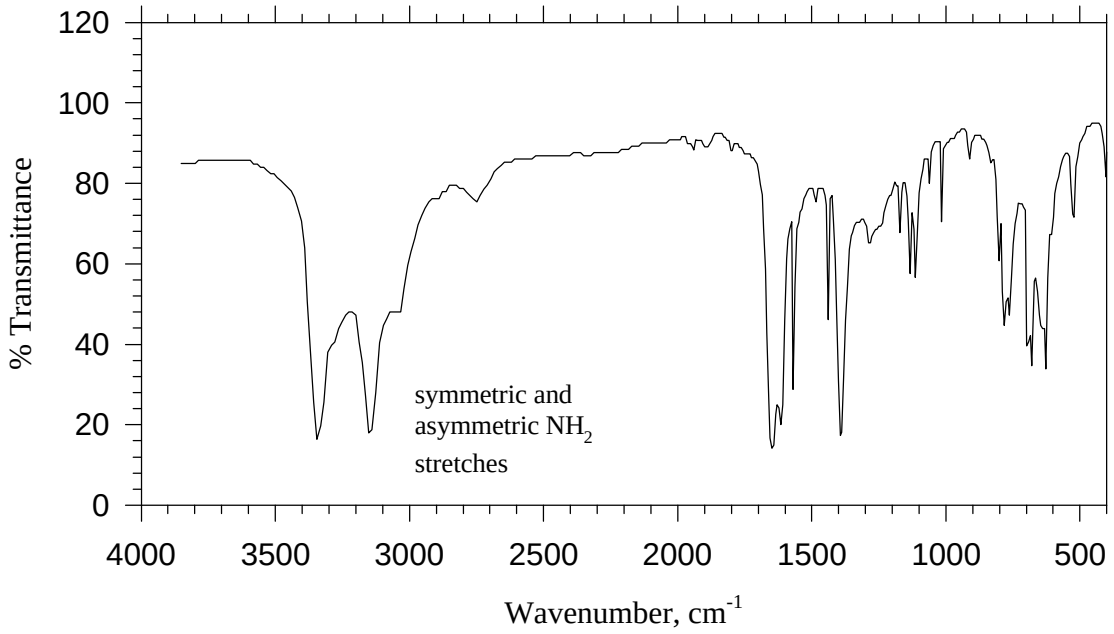


Figure 18. Butylamine, neat liquid; thin film: $CH_3CH_2CH_2CH_2NH_2$



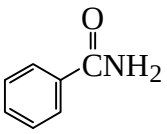


Figure 19. Benzamide, KBr pellet:

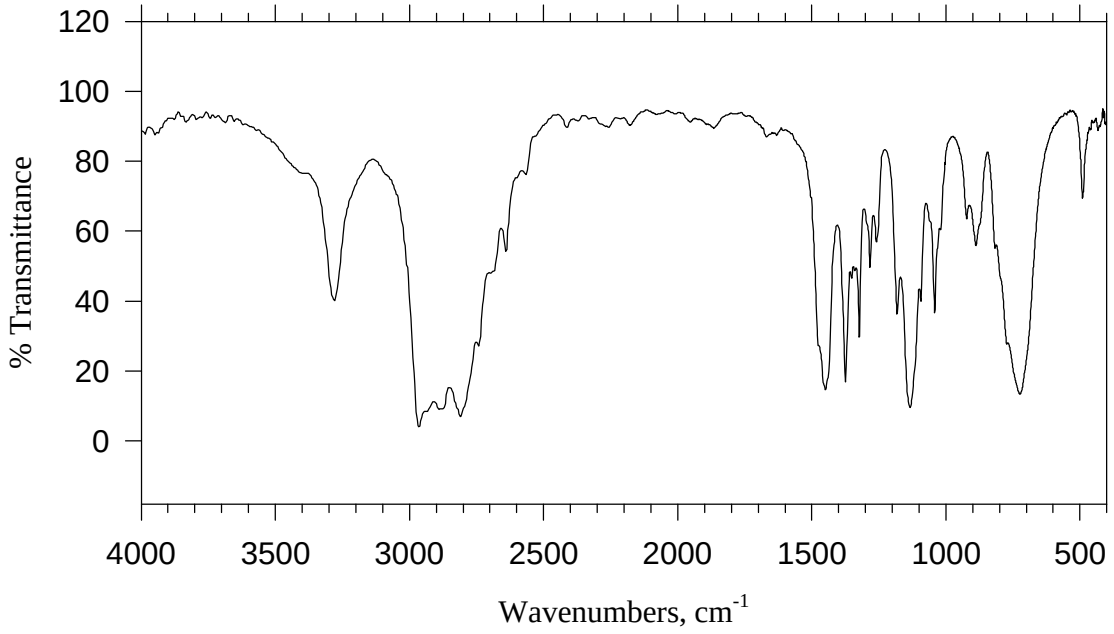


Figure 20. Diethylamine, neat liquid; thin film: $CH_3CH_2NHCH_2CH_3$

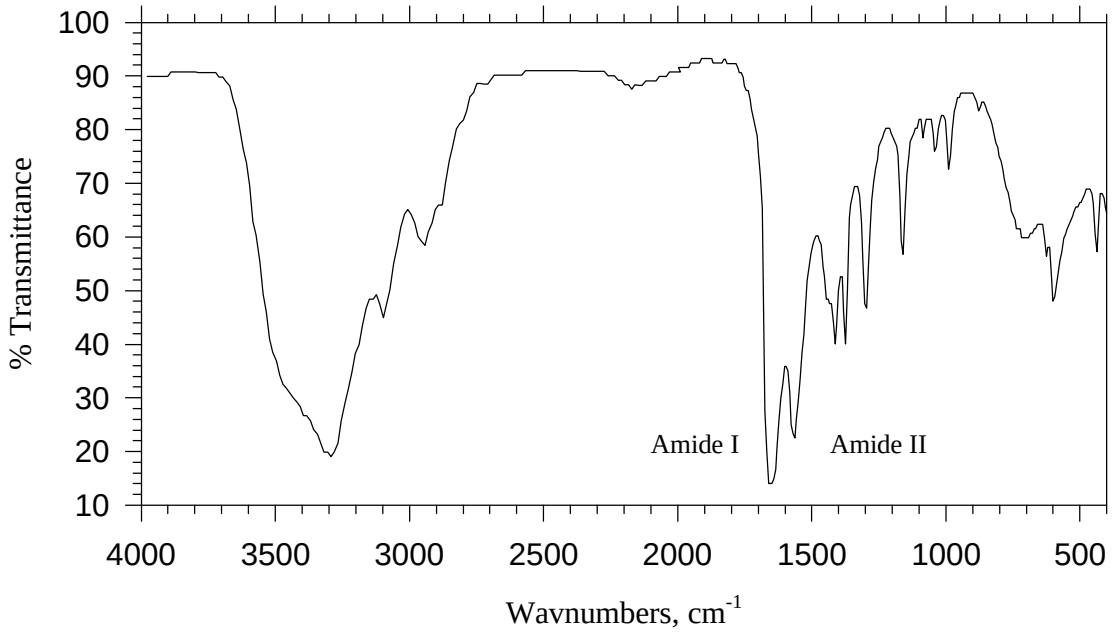


Figure 21. N-Methyl acetamide, neat liquid; thin film: $CH_3CONHCH_3$

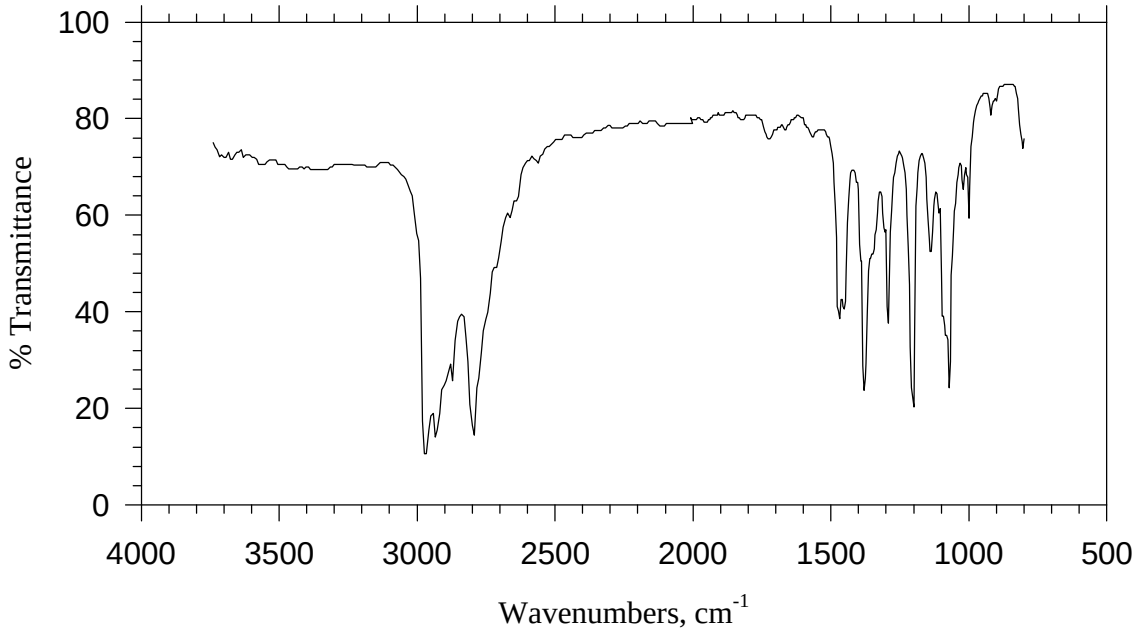


Figure 22. Triethylamine, neat liquid; thin film: $(CH_3CH_2)_3N$

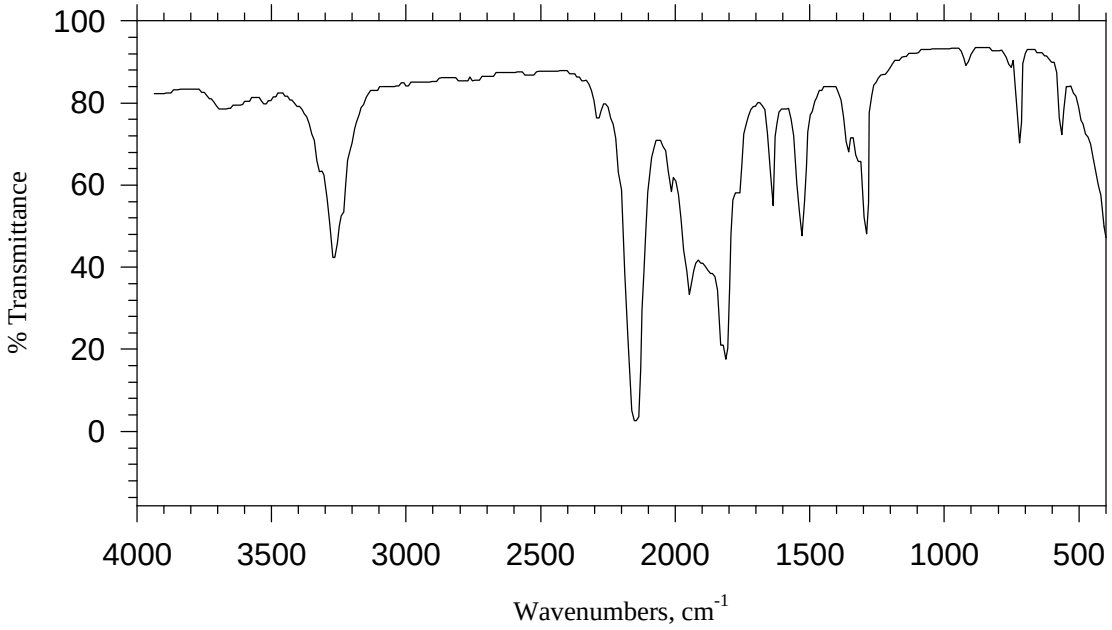


Figure 23. N,N-Dimethylacetamide, neat liquid; thin film: $CH_3CON(CH_3)_2$

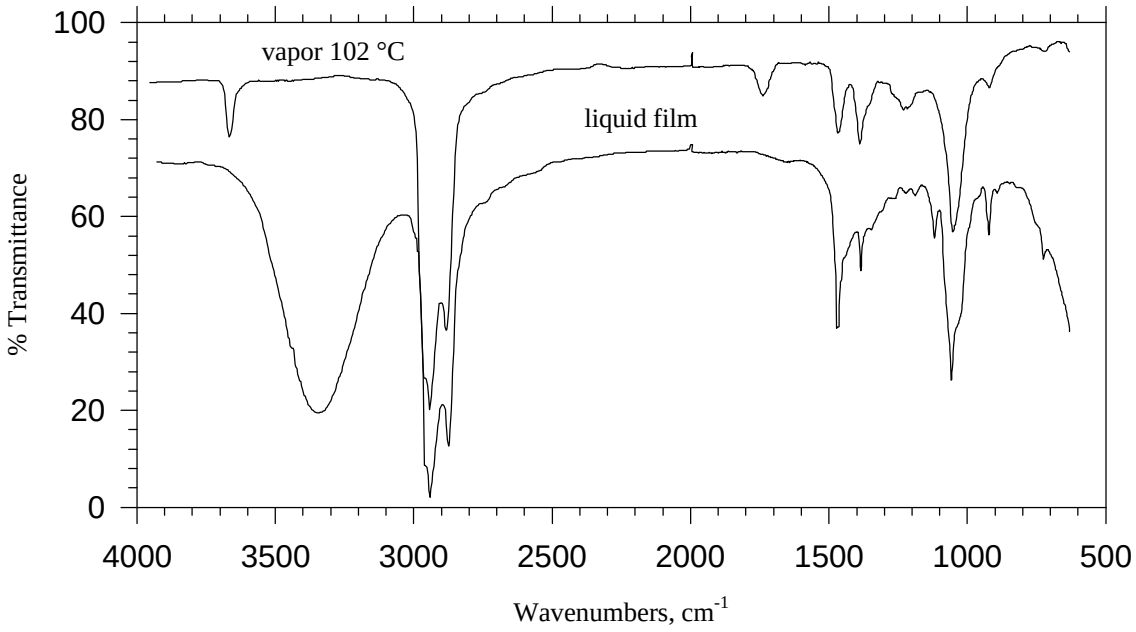
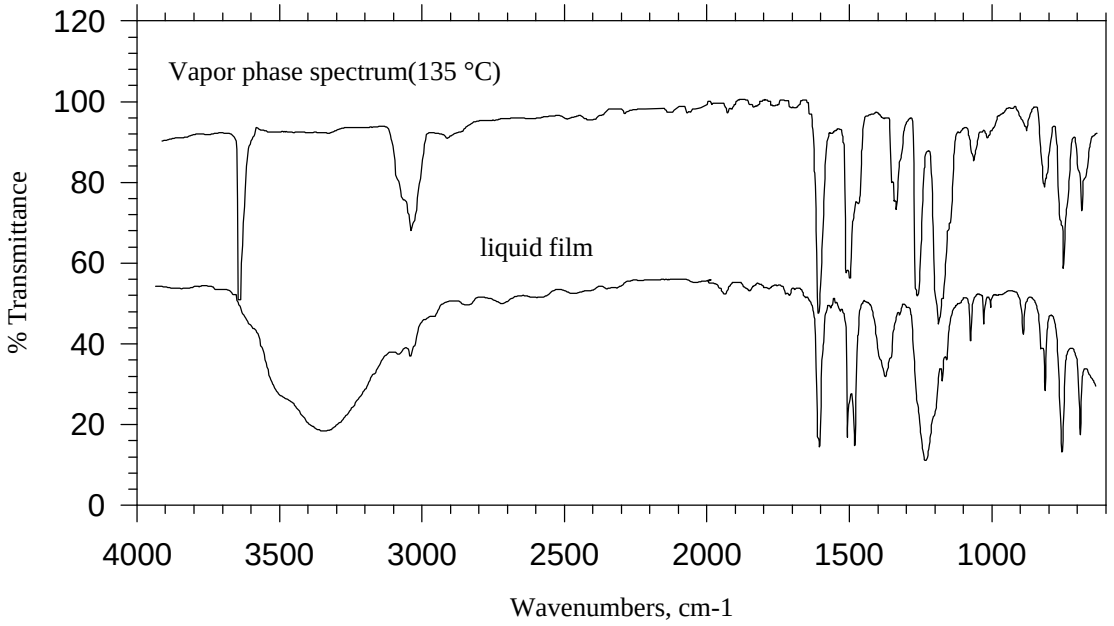


Figure 24. The liquid and vapor spectra of n-hexanol.



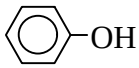


Figure 25. The liquid and vapor spectra of phenol.

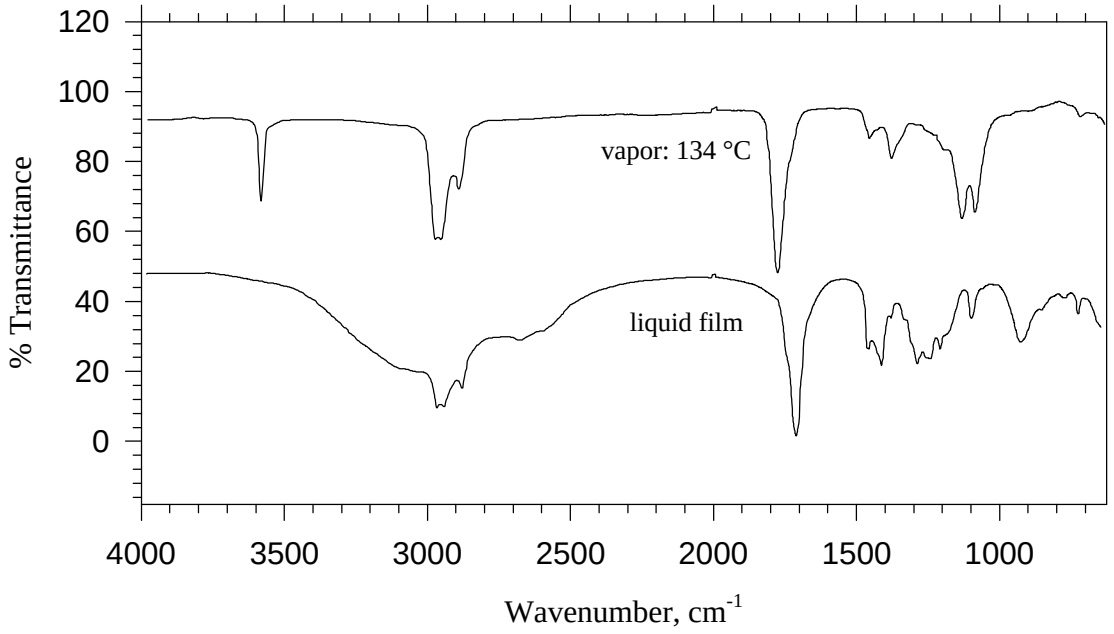


Figure 26. The liquid and vapor spectra of hexanoic acid.

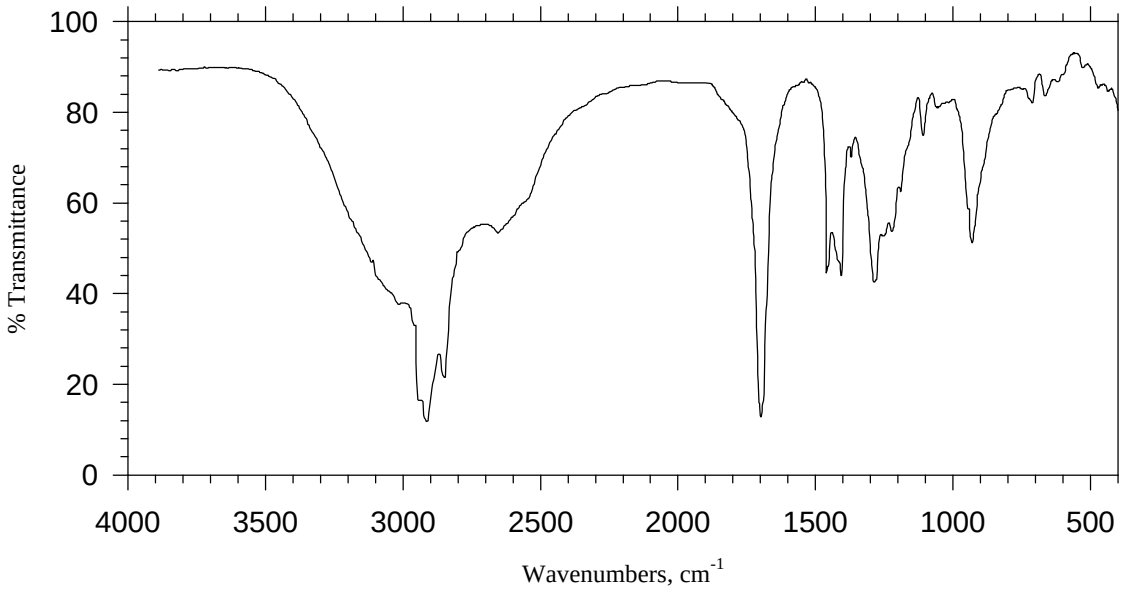
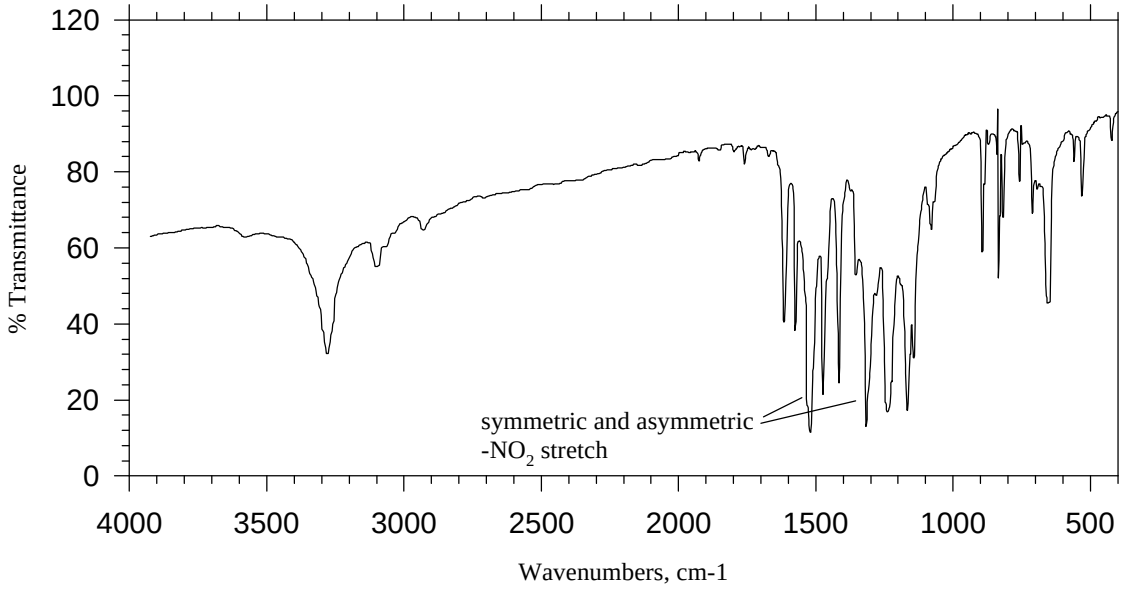


Figure 27. Decanoic acid, neat liquid, thin film: $CH_3(CH_2)_8CO_2H$



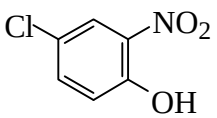
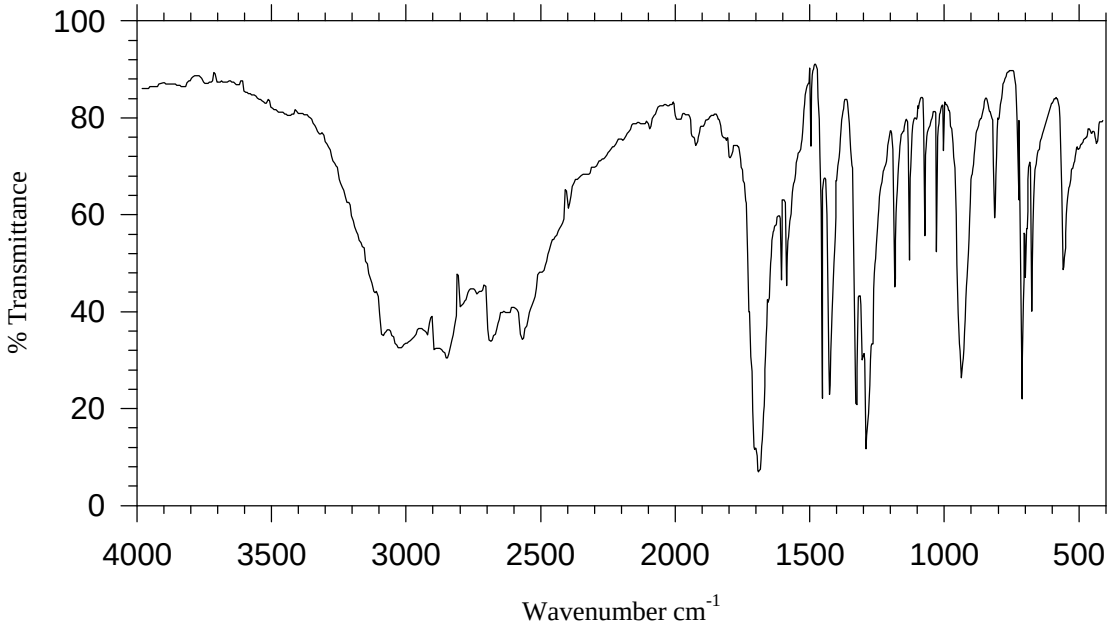


Figure 28. 4-Chloro-2-nitrophenol, KBr pellet:



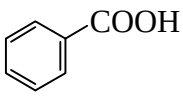


Figure 29. Benzoic acid; KBr disk:

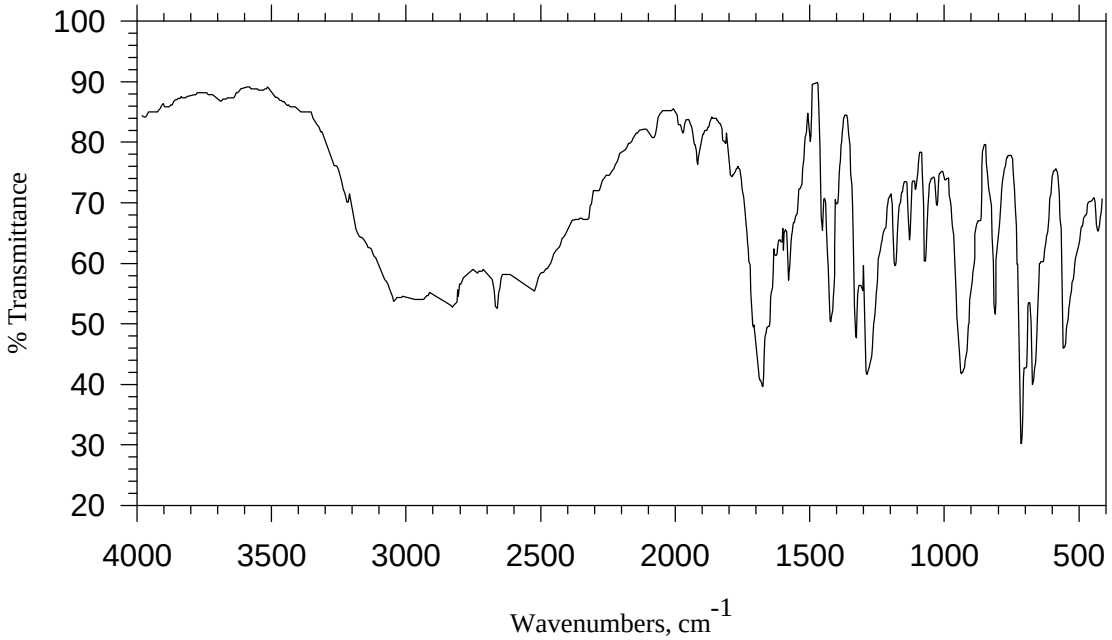


Figure 30. Benzoic acid, KBr; band distortions and broadening caused by poor grinding, compare to Figure 29.

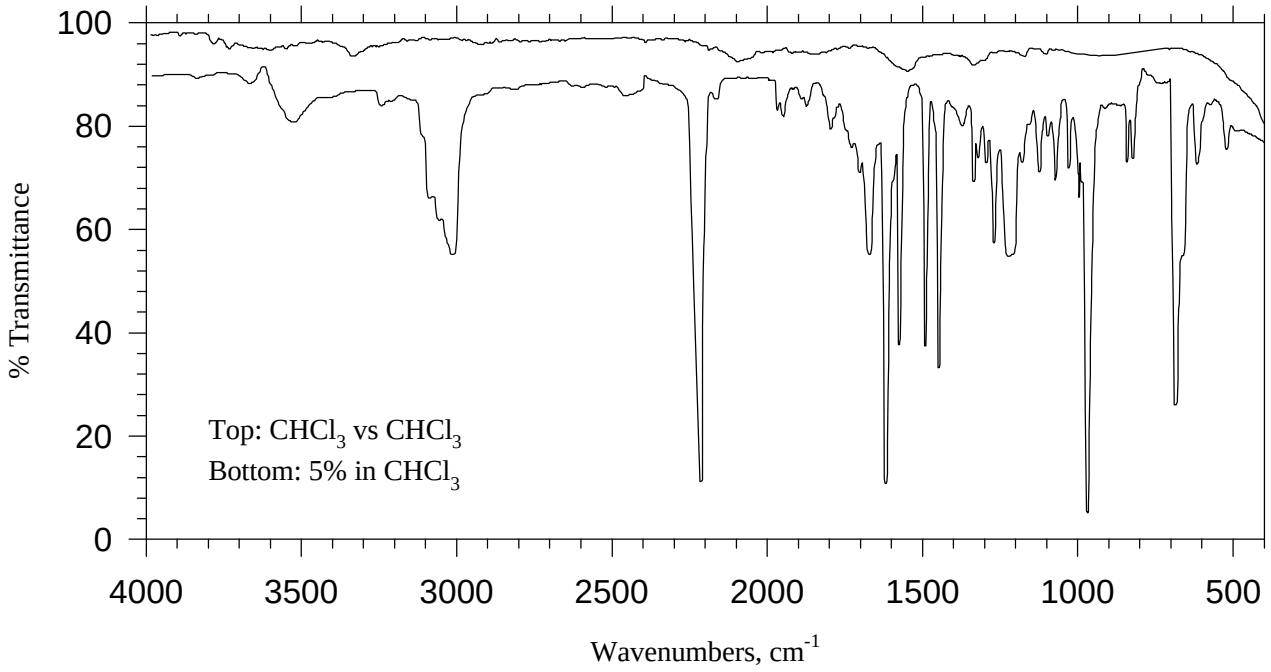


Figure 31. *trans*-2-Phenyl-1-cyanoethene, in CHCl3 solution: Ph-CH=CH-CN

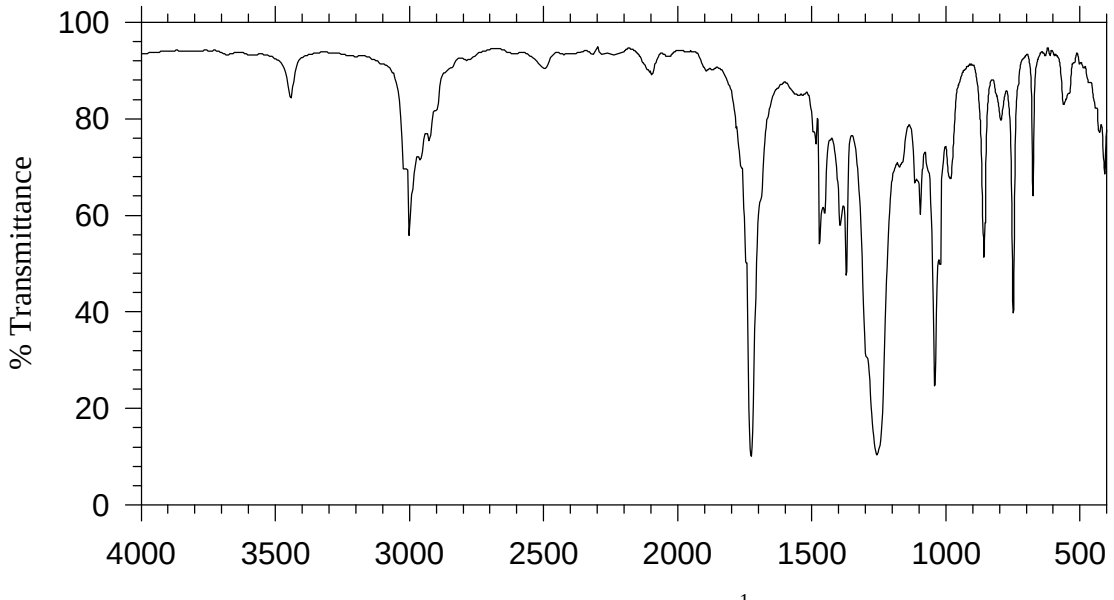


Figure 32. Diethyl acetylenedicarboxylate; neat liquid: $C_2H_5OCO\text{-}C{\equiv}C\text{-}CO_2CH_2CH_3$

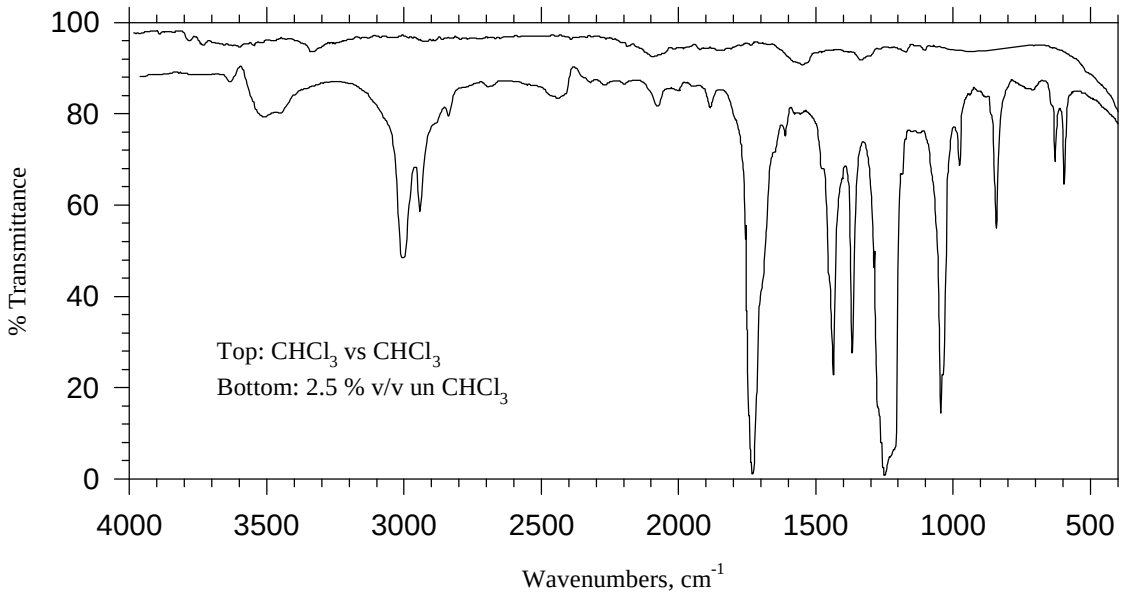


Figure 33. Methyl acetate in 0.1 mm NaCl cells: $CH_3CO_2CH_3$

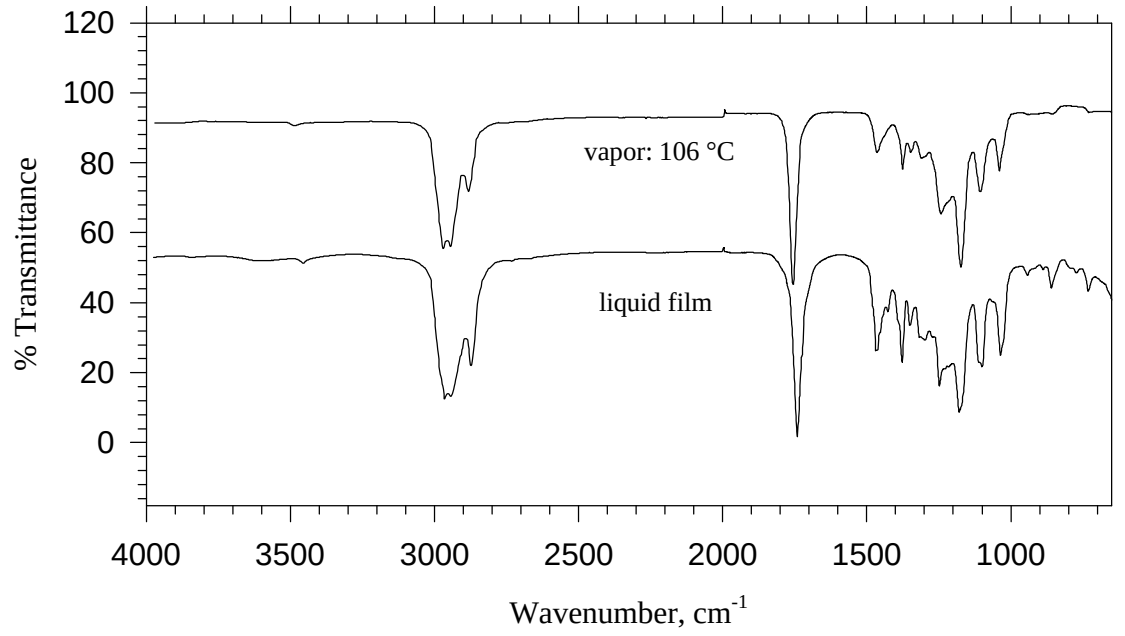


Figure 34. Vapor and liquid spectra of ethyl n-hexanoate: $CH_3CH_2CH_2CH_2CH_2CO_2CH_2CH_3$

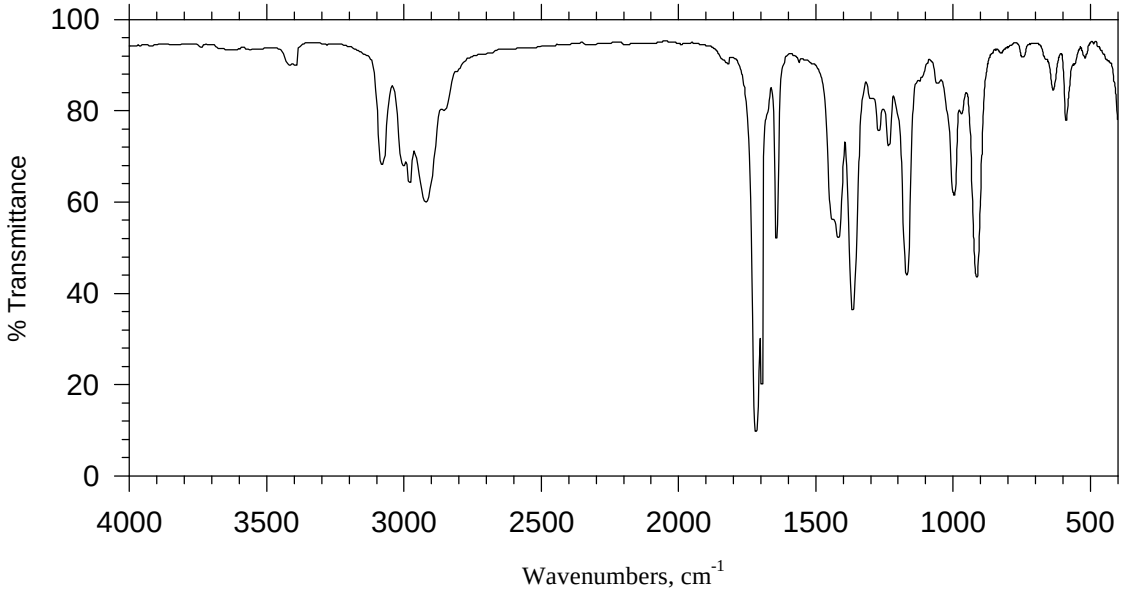


Figure 35. 5-Hexene-2-one, neat liquid: $CH_2=CH_2CH_2CH_2COCH_3$

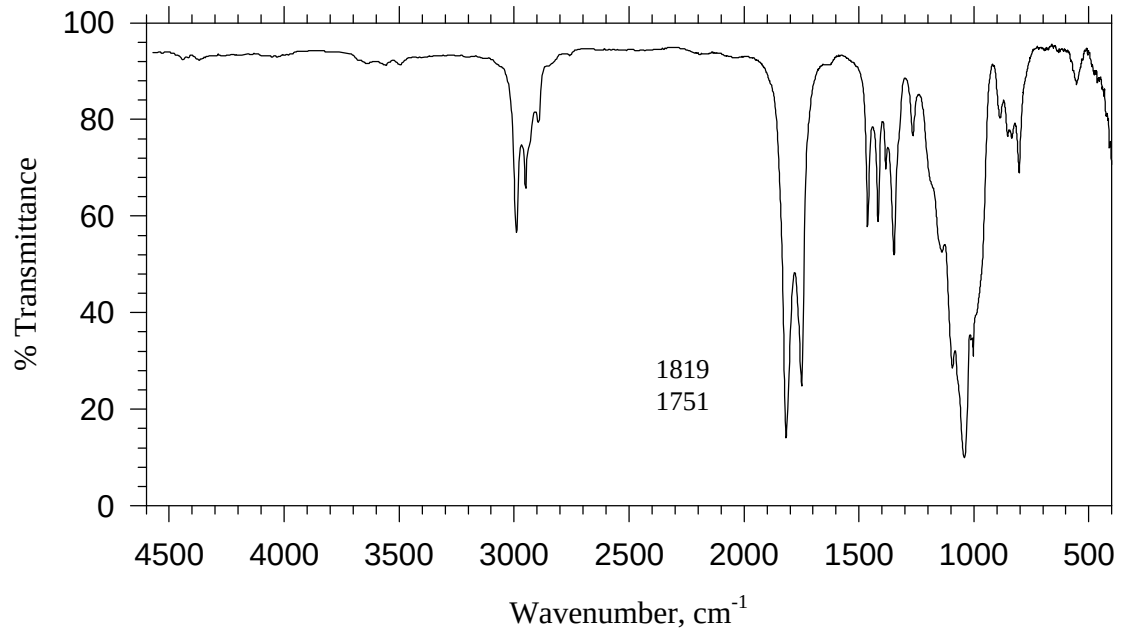
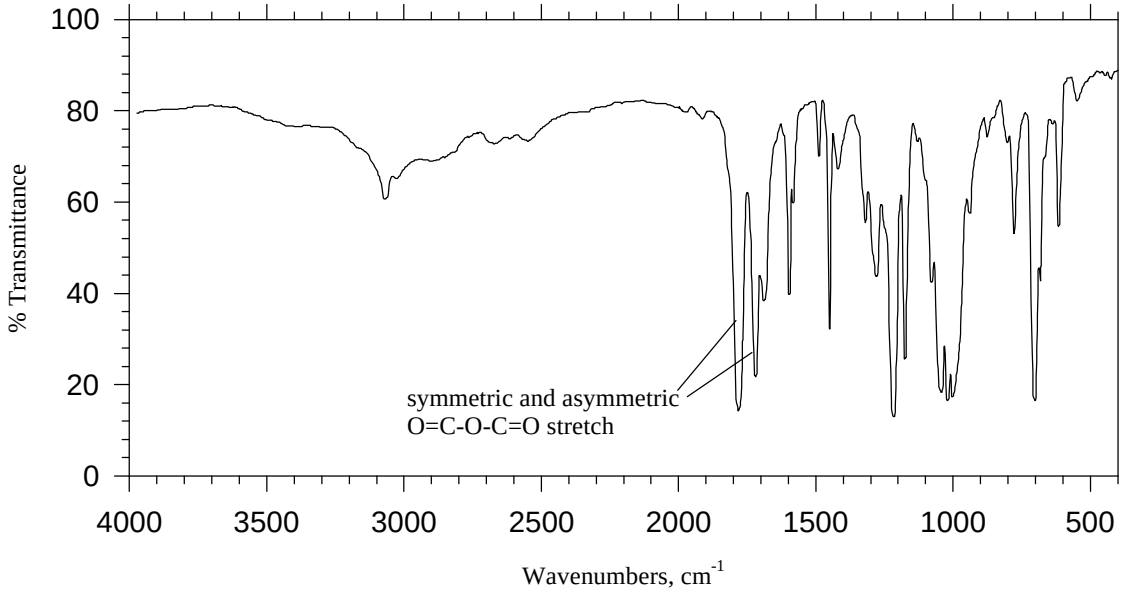


Figure 36. Propionic anhydride, neat liquid: $CH_3CH_2CO_2COCH_2CH_3$



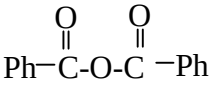
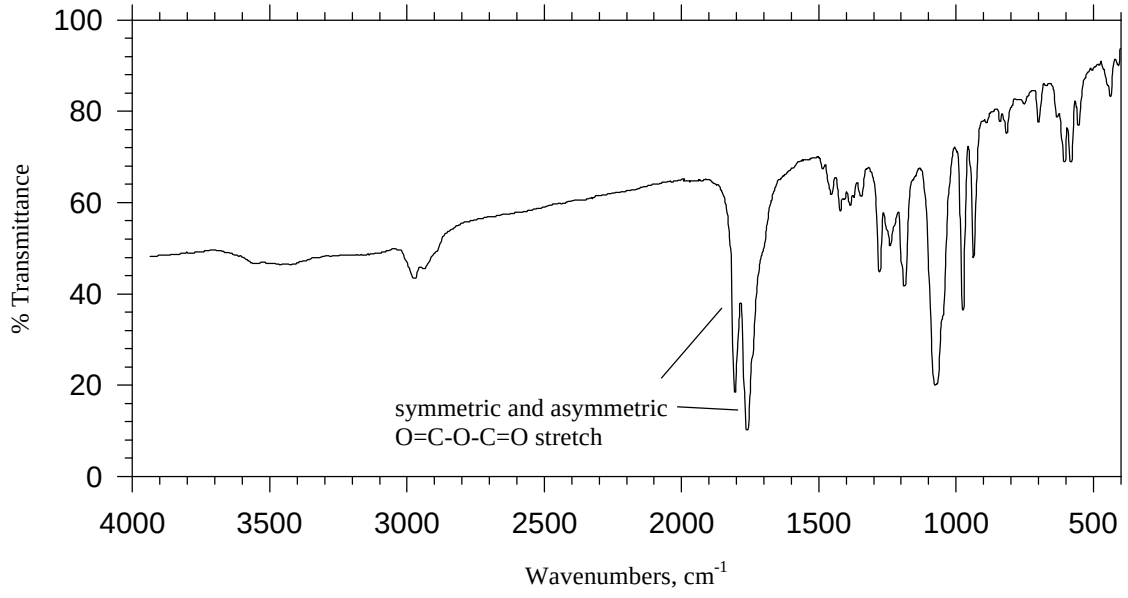


Figure 37. Benzoic anhydride, KBr pellet:



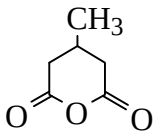
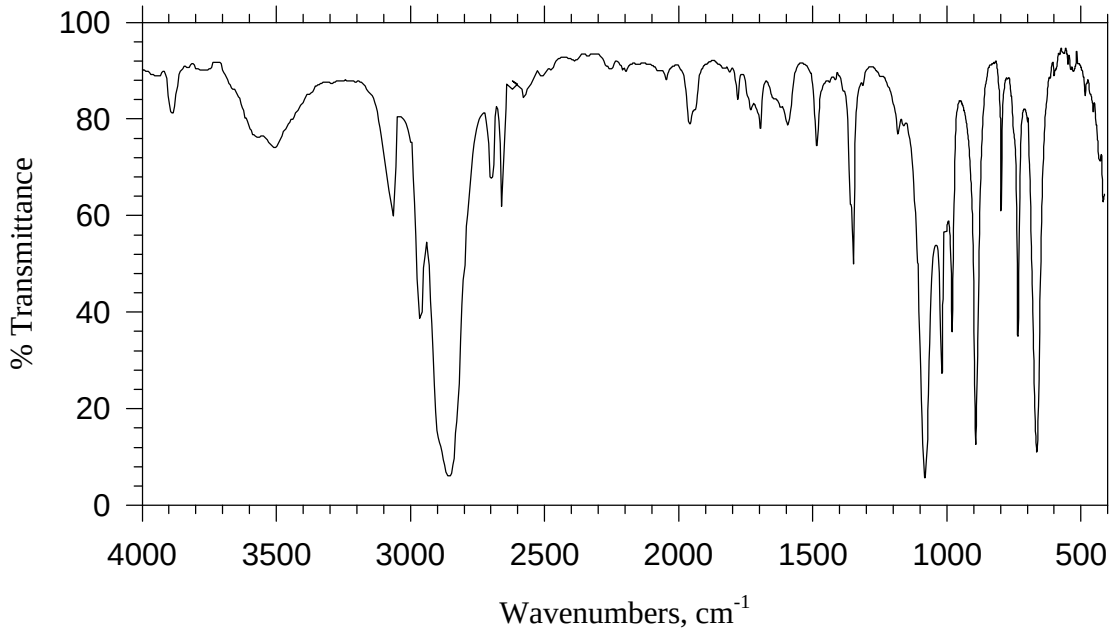
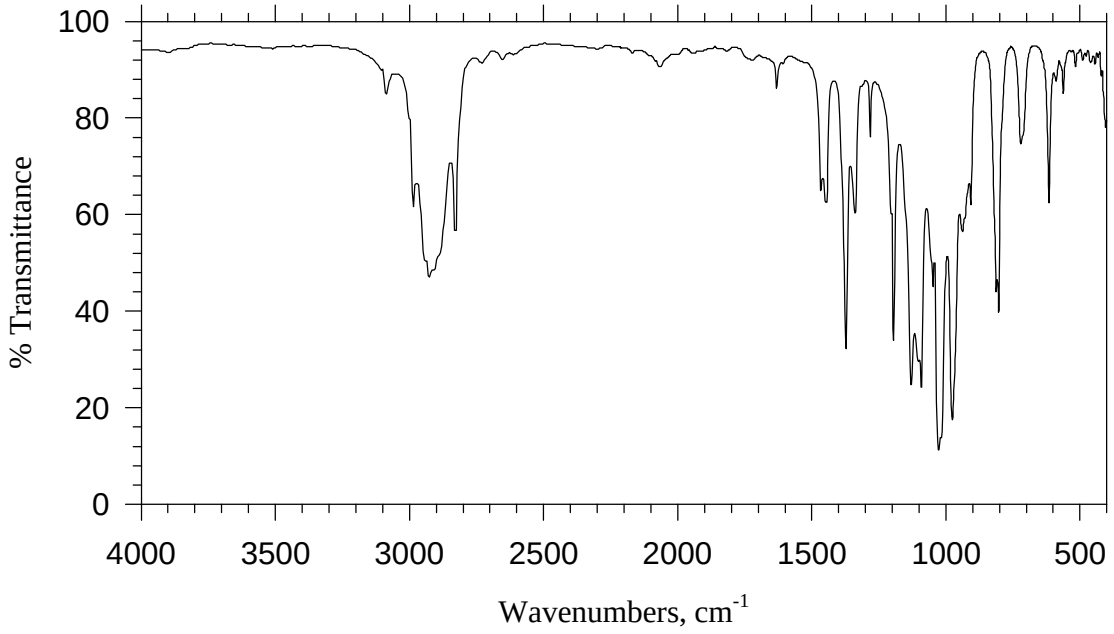


Figure 38. 3-Methylpimelic acid anhydride, KBr pellet:



2850	1012	798
1345	981	736
1079	892	665

Figure 39. 2,5-Dihydrofuran, neat liquid:



2934	1091	938
1373	1026	906
1196	976	665

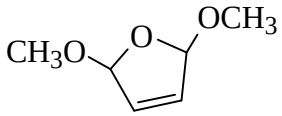
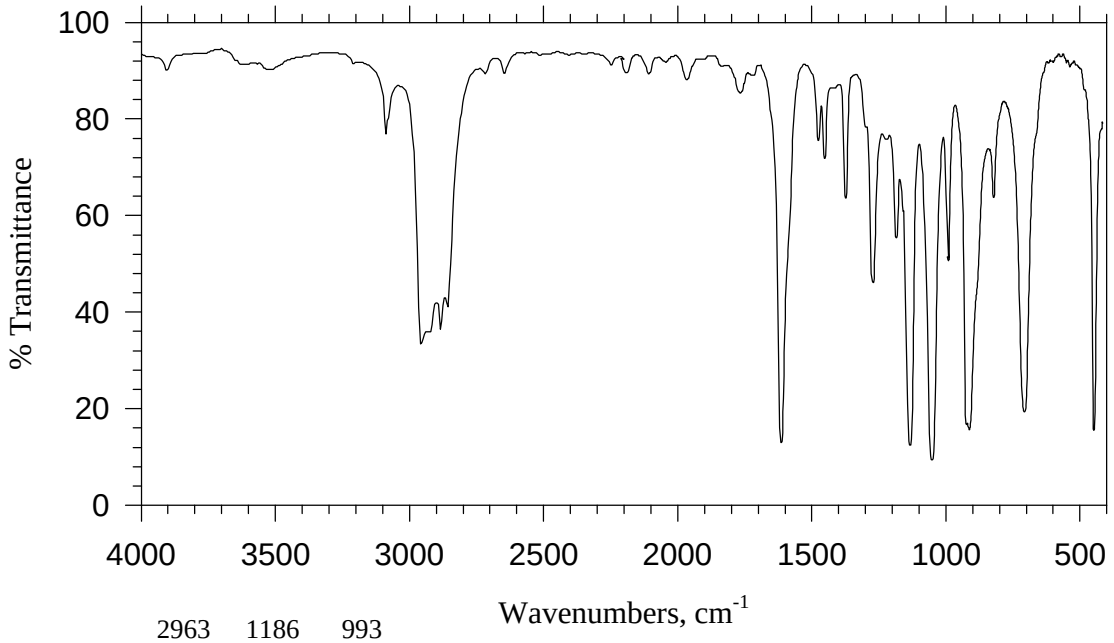
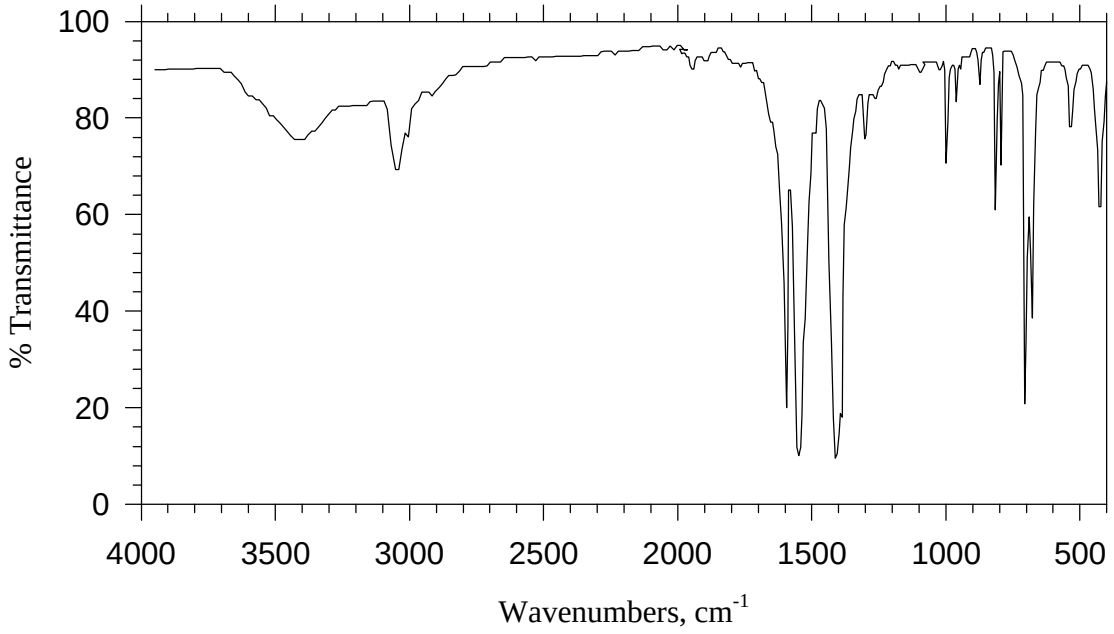


Figure 40. 2,5-Dimethoxy2,5-dihydrofuran, neat liquid:



2963	1186	993
1617	1136	914
1275	1056	709

Figure 41. 2,3-Dihydrofuran, neat liquid:



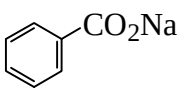
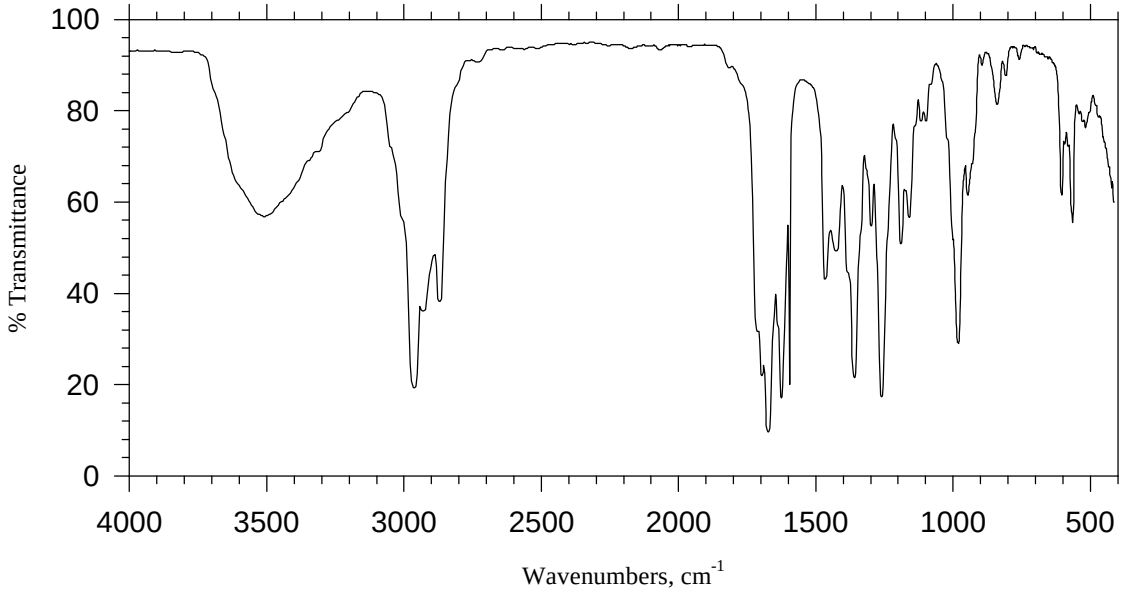


Figure 42. Sodium benzoate, KBr pellet:



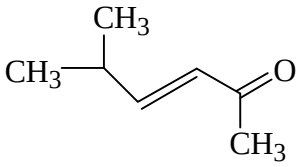
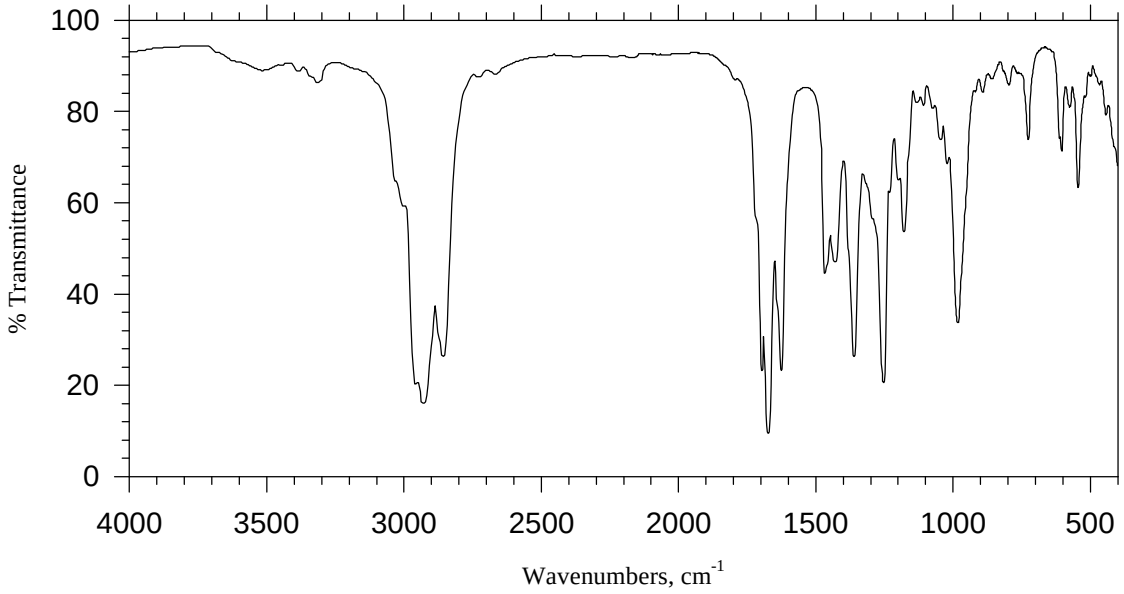


Figure 43. 5-Methyl-3-hexene-2-one, tech. grade, 80%; neat, thin film:



2930	1361	982
1677	1253	606
1467	1167	547

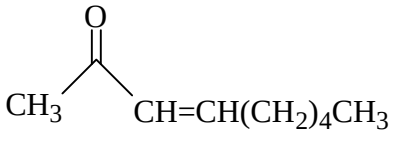


Figure 44. 3-Nonen-2-one, 95%; neat liquid, thin film:

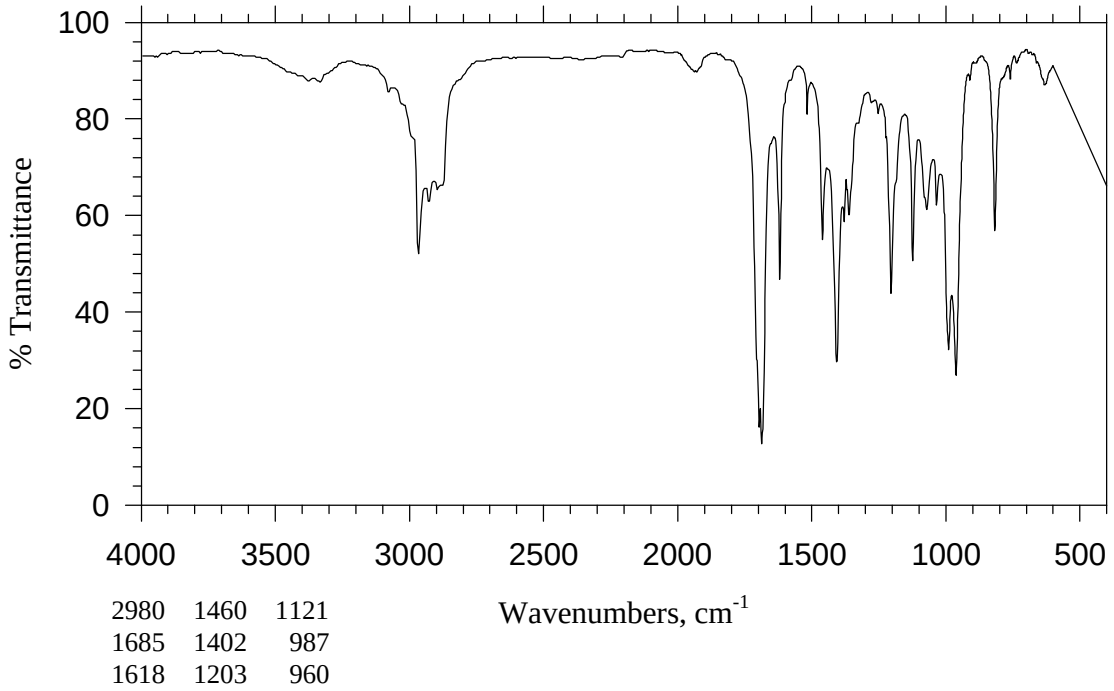


Figure 45. Ethyl vinyl ketone, neat liquid: $CH_3CH_2COCH=CH_2$

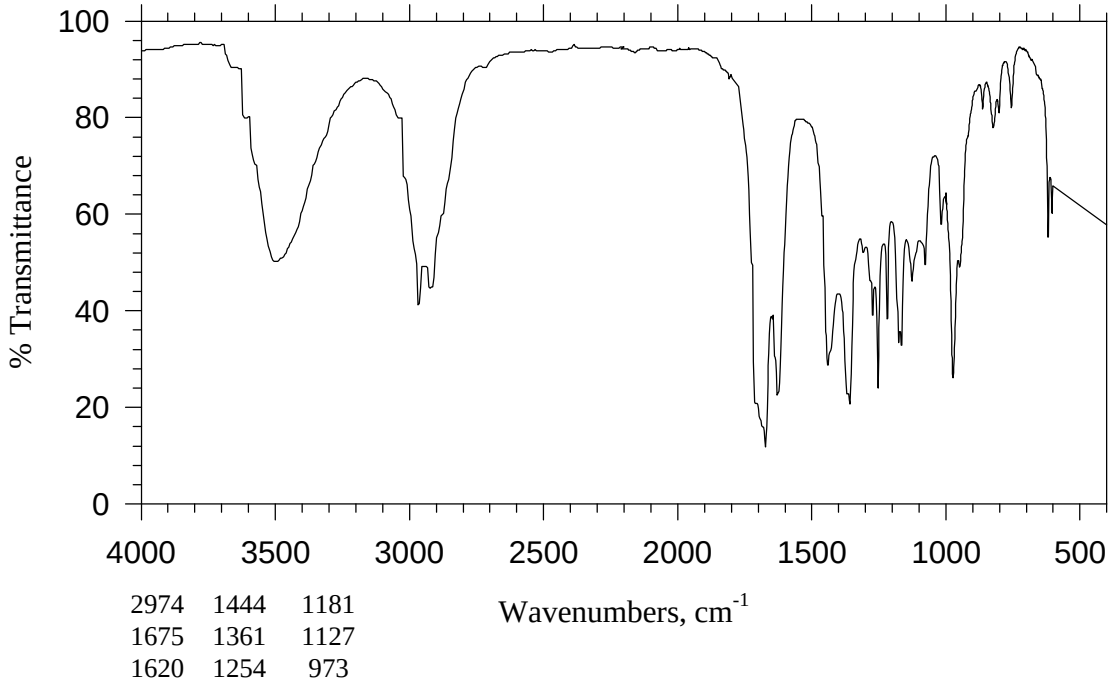
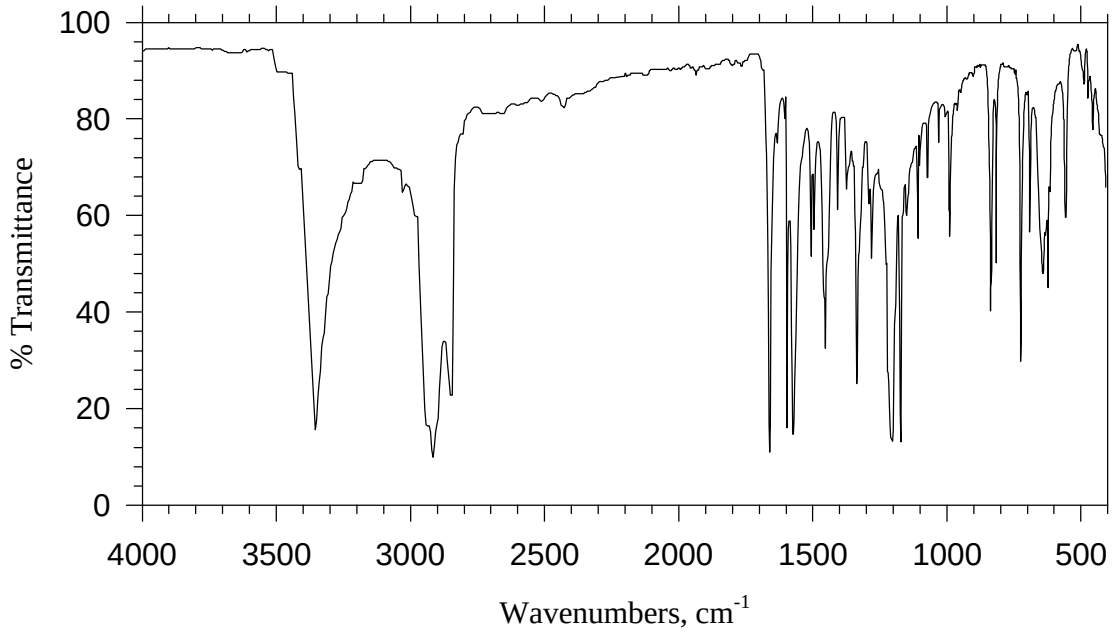


Figure 46. 3-Penten-2-one, neat liquid: $CH_3CH=CHCOCH_3$



3368	1338	995
1666	1230	841
1578	1168	728

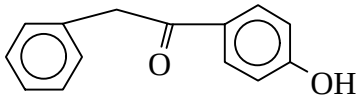


Figure 47. Benzyl 4-hydroxyphenyl ketone, Nujol mull:

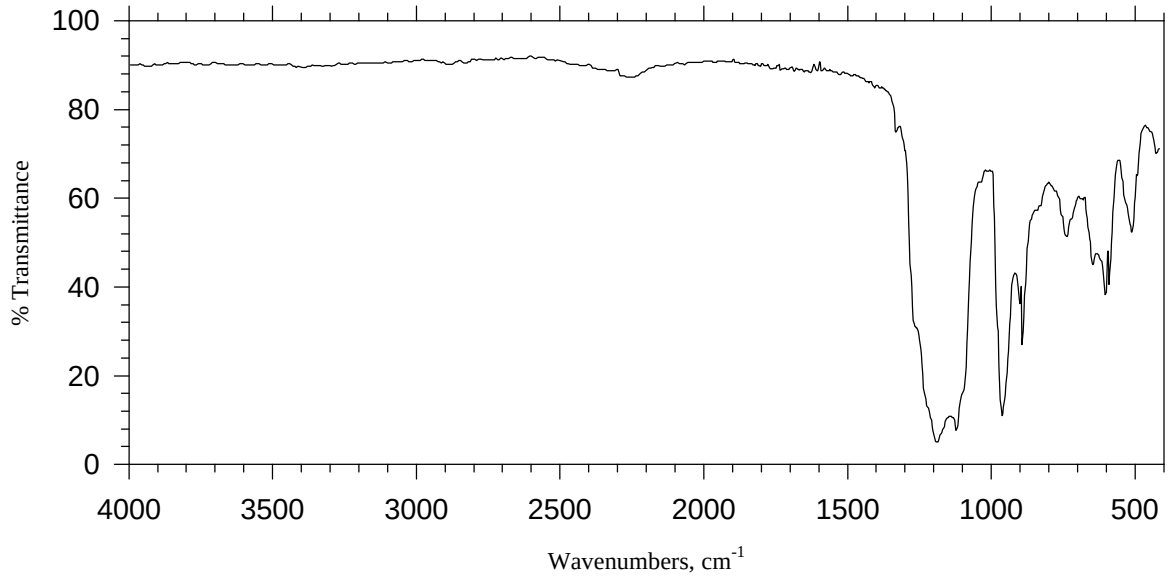


Figure 48. Perfluorohydrocarbon oil; thin film

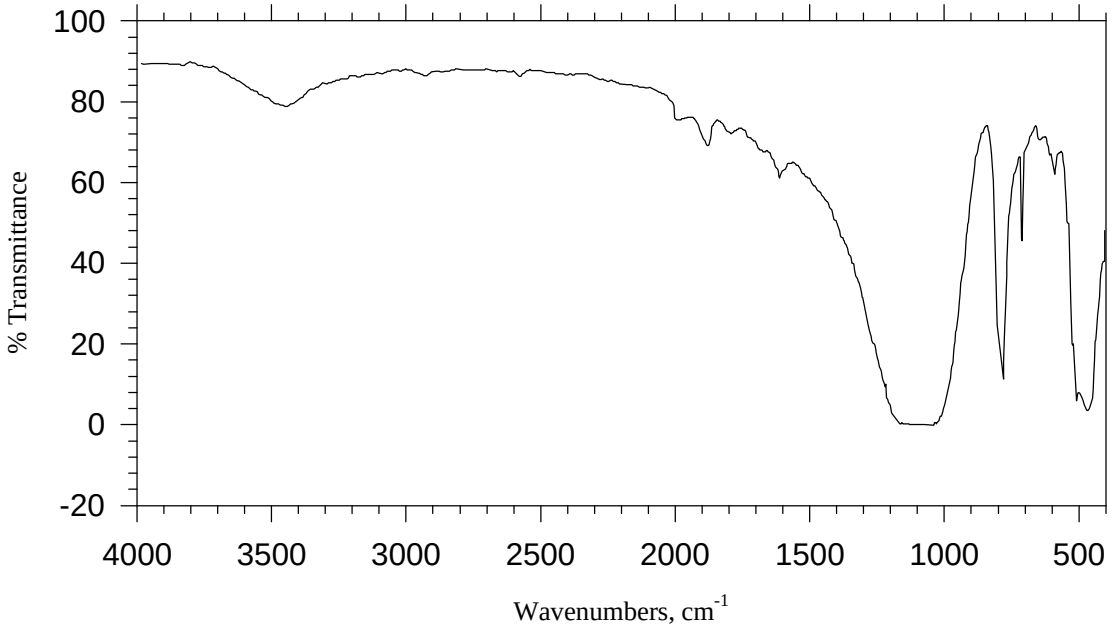


Figure 49. Quartz; KBr pellet.