

Contents

	<i>Page</i>		<i>Page</i>
Foreword.....	III	II. Explanation of tables.....	3
I. Introduction.....	1	III. Tables of vibrational frequencies.....	5

List of Tables

1. Ammonia, NH ₃	7	32. <i>trans</i> -Difluorodichloroethylene, CFClCFCl.....	28
2. Ammonia- <i>d</i> ₃ , ND ₃	7	33. Hexafluoroethane, CF ₃ CF ₃	29
3. Phosphine, PH ₃	8	34. Hexachloroethane, CCl ₃ CCl ₃	30
4. Phosphine- <i>d</i> ₃ , PD ₃	8	35. Hexabromoethane, CBr ₃ CBr ₃	31
5. Arsine, AsH ₃	9	36. Ethylene, CH ₂ CH ₂	32
6. Arsine- <i>d</i> ₃ , AsD ₃	9	37. 1, 2-Dichloroethane, CH ₂ ClCH ₂ Cl (trans form).....	33
7. Stibine, SbH ₃	10	38. 1, 2-Dichloroethane, CH ₂ ClCH ₂ Cl (gauche form).....	34
8. Stibine- <i>d</i> ₃ , SbD ₃	10	39. 1, 2-Dibromoethane, CH ₂ BrCH ₂ Br (trans form).....	35
9. Carbon tetrafluoride, CF ₄	11	40. 1, 2-Dibromoethane, CH ₂ BrCH ₂ Br (gauche form).....	36
10. Carbon tetrachloride, CCl ₄	11	41. 1, 2-Chlorobromoethane, CH ₂ ClCH ₂ Br (trans form).....	37
11. Carbon tetrabromide, CBr ₄	12	42. 1, 2-Chlorobromoethane, CH ₂ ClCH ₂ Br (gauche form).....	38
12. Carbon tetraiodide, CI ₄	12	43. Ethyl fluoride, CH ₃ CH ₂ F.....	39
13. Dichloromethane, CH ₂ Cl ₂	13	44. Ethyl chloride, CH ₃ CH ₂ Cl.....	40
14. Dichloromethane- <i>d</i> ₁ , CHDCl ₂	14	45. Ethyl bromide, CH ₃ CH ₂ Br.....	41
15. Dichloromethane- <i>d</i> ₂ , CD ₂ Cl ₂	15	46. Ethane, CH ₃ CH ₃	42
16. Methane, CH ₄	16	47. Ethane- <i>d</i> ₆ , CD ₃ CD ₃	43
17. Methane- <i>d</i> ₁ , CH ₃ D.....	16	48. Dimethylether, CH ₃ OCH ₃	44
18. Methane- <i>d</i> ₂ , CH ₂ D ₂	17	49. Dimethylether- <i>d</i> ₃ , CH ₃ OCD ₃	45
19. Methane- <i>d</i> ₃ , CHD ₃	17	50. Malononitrile, NCCH ₂ CN.....	46
20. Methane- <i>d</i> ₄ , CD ₄	18	51. Malononitrile- <i>d</i> ₂ , NCCD ₂ CN.....	47
21. Methanol, CH ₃ OH (gas).....	19	52. Ethylcyanide, CH ₃ CH ₂ CN.....	48
22. Methanol, CH ₃ OH (liquid).....	20	53. Propane, CH ₃ CH ₂ CH ₃	49
23. Methanol- <i>d</i> ₁ , CH ₃ OD (gas).....	20	54. <i>n</i> -Butane, CH ₃ CH ₂ CH ₂ CH ₃ (trans form).....	50
24. Methanol- <i>d</i> ₁ , CH ₃ OD (liquid).....	21	55. <i>n</i> -Butane, CH ₃ CH ₂ CH ₂ CH ₃ (gauche form).....	51
25. Methanol- <i>d</i> ₃ , CD ₃ OH (gas).....	22	56. Benzene, C ₆ H ₆	52
26. Methanol- <i>d</i> ₃ , CD ₃ OH (liquid).....	23	57. Benzene- <i>d</i> ₆ , C ₆ D ₆	53
27. Methanol- <i>d</i> ₄ , CD ₃ OD (gas).....	23	58. Cyclohexane, C ₆ H ₁₂	54
28. Tetrafluoroethylene, CF ₂ CF ₂	24	59. Cyclohexane- <i>d</i> ₁₂ , C ₆ D ₁₂	56
29. Tetrachloroethylene, CCl ₂ CCl ₂			
30. Tetrabromoethylene, CBr ₂ CBr ₂			
31. 1, 1-Difluoro 2, 2-dichloroethylene, CF ₂ CCl ₂	27		

