

REFERENCES

1. Kasha, M. *Discus. Farad. Soc.*, 9, 14 (1950).
2. Bond energies at 0° are from Cottrell, tel "The synthesis of chemical bonds" (2nd edition) Butter Worker, London 1958.
3. Bowen, E.J. *Advances in photochemistry* Interscience, New York p. 32 (1963).
4. Williams, R.T. and Bridges, J. *Clin. Path.*, 17, 371 (1964).
5. Lippert, E., Luder, W. and Monn, F. *Spectrochim. Acta*, 10, 558 (1959).
6. Cowgill, R.W. *Biochem. Biophys. Acta*, 112, 550 (1966).
7. See Ref. 5.
8. Van, Duerell, B.L., *J. Org. Chem.*, 26, 2954 (1961).
9. Van, Duerell, B.L., *J. Org. Chem.*, 63, 325 (1963).
10. Livingstone, R., Wateson, W.F. and McArdle, J.J. *Amer. Chem. Soc.*, 71, 1542 (1949).
11. Sawicki, E., Stanley, J.W. and Elbert, Wac. *Talanta*, 11, 1433 (1964).
12. Perker, C.A. and Burnes, W.J. *Analyst*, 82, 606 (1957).
13. Forster, T. and Kasper, K.Z. *Elektrochem.* 59, 976 (1955).

14. Levinson, G.S., Simpson, W.T. and Curtis, W.J. Am. Chem. Soc., 79, 4314 (1957).
15. Stensby, P.J. and Rosenberg, J.L. J. Phys. Chem. 65, 906 (1961).
16. Weller, A.Z. Elektrochem. 54, 42 (1952).
17. Bridges, J.W., Davies, D.S. and Williams, R.T. Biochem. J., 98, 451 (1966).
18. Hercules, D.M. and Rogers, L.B. In spectrochim. Acta, 14, 393 (1959).
19. Wehry, E.L. and Rogers, L.B. In fluorescence and phosphorescence analysis (edited by D.M.Hercules) Chapter 3, Interscience, New York 1965.
20. Apblever Inorganic electronic spectroscopy Elsevier Amsterdam, 1968.
21. Konig, E., Structure and bonding, 9, 175 (1971).
22. Colthup, N.B., Daly, L.H. and Wiverley, S.E. Introduction to infrared and Raman spectroscopy 2nd edition Academic press, New York 1975.
23. Briks, J.B. and Dyson, J.E. Pers. roy. soc. A 275, 135 (1963).
24. Strickler, S.J. and Berg, R.A. J. Chem. Fish. 37, 814 (1962).

25. Meites, L. Hand book of Analytical Chemistry, McGraw New York (1964).
26. Hercus, D.M. Fluorescence and phosphorescence analysis Interscience, New York 1966.
27. Guilbault, G.G. Fluorescence, New York 1967.
28. White, C.E. and Argauer, R.J. Fluorescence Analysis New York 1970.
29. Radly, J.A. and Grant, J. Fluorescence analysis in ultraviolet light 4th Ed. 1953.
30. Uden Friend, S., Fluorescence assay in biology and medicine Academic press, New York 1964.
31. Konstant Nove-Shlezingar M.A. Fluorometric analysis, Davey New York 1966.
32. Analytical Chemistry is regularly published Annu. Rev. Since 1939.
33. Vogel, A.I. A text-book of Practical Organic Chemistry (quantitative organic analysis), p. 986.
34. Bishop, E. Indicators Pergamon press, Oxford, New York 1972.
35. Yatsimirskii, K.B., Kinetic methods of analysis, Pergamon press, Oxford 1966.
36. Buděšínský, B. Coll. Czech. Chem. Comms. 22, 1599 (1957).

37. Buděsinsky, B. and Gurovic, J. Coll. Czech. Chem. Comms. 28, 1154 (1968).
38. Korbi, J., Kraus, E. and Pribil, R. Coll. Czech. Chem. Comms. 23, 1219 (1958).
39. Korbi, J. and Kakar, B. Coll. Czech. Chem. Comms. 23, 88a (1958).
40. Buděsinsky, B. and Antanescu, E. Ibid., 28, 3264 (1963).
41. Cheng, K.L. Anal. Chim. Acta, 28, 41 (1963).
42. Ringbom, A. Complexation in Analytical Chemistry, Wiley-Interscience, New York 1963.
43. Korbi, J. and Pribil, R. Coll. Czech. Chem. Comms. 28, 873 (1958).
44. Behak, B. and Korbl, J. Coll. Czech. Chem. Comms. 25, 797 (1960).
45. Cheng, K.L. Talanta, 5, 254 (1960).
46. Onishi, H. and Ishiwatari, N. Bull. Chem. Soc. Japan, 33, 1981 (1960).
47. Cheng, K.L. Talanta, 3, 81 (1959); 8, 753 (1961).
48. Cheng, K.L. Anal. Chim. Acta, 28, 41 (1963).
49. Bishop, J.A. Annl. Chem. Acta, 22, 117 (1960).

50. Koichi, K., Bunseki, Kagaku. 17, 1377 (1968).
51. Dashkevich, L.B. and Kisarev, E.V. Trudy Leningrad Khim. Farm. 5, 30 (1958).
52. Csuri, I.J. Acta Histo Chem. 22, 283 (1965).
53. Tripathi, S., Kishore, J., Gopal Krishnan, K. and Machawe, M.K. Current Science, 42, 458 (1973).
54. Tripathi, S., Kishore, J., Gopal Krishnan, K. and Machawe, M.K. Current Science, 44, 542 (1975).
55. Guyot, G., Arnand, R., Lemaire, J. J. Chim. Phys. 72, 647 (1975).
56. Pandya, M.L. and Machawe, M.K., Ind. J. Pure and Appl. Phys. 14, 398 (1976).
57. Dye, J.L. and Nicely, V.A., J. Chem. Ed. 48, 443 (1971).
58. Kurucsev, T. J. Chem. Ed. 55, 128 (1978).
59. Matveets, M.A., Shcherbov, D.P. and Akhmetove, S.D. Z. Anal. Khim. 34, 1049 (1979).
60. Shah, J. Joshi, N.B. and Pant, D.D. Current Science, 49, 609 (1980).
61. Boguty, A.H., Spicer, J.A. and Dressler, R.L. Chem. Abs. 23, 23914K (1980).

62. Lopez, A.I. J. Photochem. (1980). q3 212696, b.
63. Paucescu, S.D. and Ionescu, I.C., Rev. Chim. 31, 339 (1980).
64. Paucescu, S.D., Visan, V., Rev. Chim. 31, 245 (1980).
65. Abromochkin, E.S., Kadyrmutova, T.P., Petrova, G.S., Rodiorisra-Fakeeva N.V., USSR Pat. Appl. 2615. 738, 15 May 1978.
66. Zakhidow, V., Nizamov, N., and Atakhodzhaev, A.K., Izv. Akad. Nauk. Uzb. SSR. Ser. Fiz-Mat. Nauk. 6, 46 (1980).
67. Burak, F., Acta Phys. Pol. A60, 261 (1981).
68. Idriss, K.A., Award, A.M., Seleim, M.M. and Abubakr, M.S. Ind. J. Chem. 20A, 488 (1981).
69. Nikokavourar, J., Zoijs, J., Vassilopoulos, G. and Parry, A. J. Prakt. Chem. 323, 21 (1981).
70. Khanna, P.L. Eur. Pat. Appl. 25912 (1979).
71. Empeydine, D., Levillain, P., Bull. Soc. Chim. France, 11, 459 (1980).
72. Barnes, L.D., Guy, M.H., Robertson, G.M. and Osgood, R.W. Chem. Abs. 97, 56220s (1982).
73. Japan Kokai Tokyo Koho Jap. Pat. 80, 151787 (1980).
74. Pampeydine, D., Robaron, A., Levillain, P. and Bourdon, R. J. Chem. Res. Synop. 11, 350 (1981).

75. Abramochikin, E.S., Kadyrmatova, T.P., Petrova, G.S.,
Rodionova, N.A. and Fakeera, W.V. *Zh. Khim.* 1982.
76. Wang, C.H., Jeffrey, S.S., Denhau, J.M.E. *Chem. Abs.* 97,
28670v (1982).
77. Langbein, H., Friedrich, M., Pactzold, R., *Z. Phys. Chem.*
133, 99 (1982).
78. Privalova, N.Yu., Fotonova, R.N., *Zh. Fiz. Khim.*, 56,
3023 (1982).
79. Babcock, D.F., Kramp, D.C., *J. Bilo Chem.* 258, 8389 (1983).
80. Lopez, A.I. *Thermo Chim. Acta*, 60, 219 (1983).
81. Ortner, A.Z., Herbert, D.G., Weiss, P., *J. Reprod. Med.*
28, 25 (1983).
82. Lopez, A.I., *Dyes Pigm.* 4, 213 (1983).
83. Kruger, F., *Ber. deusch. chem. Ges.*, 9, 1572 (1876).
84. Luck, E.Z. *Anal. Chem.* 16, 332 (1877).
85. See Ref. 33.
86. Ju. Luries "Hand-book of analytical chemistry".
87. Vogel, A.I. *A Text book of quantitative Inorganic Analysis*,
P. 192 to 200.
88. Katritzky, A.R., *Quart. Rev.* 13, 353 (1959).

89. Varsanyi, G., Vibrational Spectra of Benzene Derivatives
Academic Press, New York 1969.
90. Sheppard, N. and Simpson, D.M., Quart. Rev. 6, 1 (1952).
91. Petts, W.J. and Nyquist, R.A., Spectrochim. Acta, 15,
679 (1959).
92. Scherev, J.R. and Petts, W.J., J. Chem. Phys. 30, 1527 (1959).
93. Colthup, N.B., Daly, L.H. and Wiberley, S.E., Introduction
to infrared and Raman Spectroscopy Academic Press,
New York 1975.
94. Jones, R.N. and Gallagher, B.S., J. Amer. Chem. Soc. 81,
5242 (1959).
95. Jones, R.N., Angell, C.L., Ito, T. and Smith, R.J.D.,
Can. J. Chem., 37, 2007 (1959).
96. Hartwell, E.J., Richards, R.E. and Thompson, H.W.
J. Chem. Soc. 1436 (1948).
97. Fowler, R.G. and Smith, R.M., J. Opt. Soc. Amer. 43,
1054 (1953).
98. Lord, R.C. and Miller, F.A., Appl. Spectroscopy, 10, 115
(1956).
99. Colthup, N.B., J. Opt. Soc. Amer. 40, 397 (1950).
100. Brown, J.K. and Sheppard, N., Trans Farady Soc. 50, 1164
(1954).

101. Sheppard, N., Trans. Faraday Soc. 46, 527 (1950).
102. Vogel, A.I., Quantitative Inorganic Analysis, Longmans London 3rd Ed. 1961.
103. Sarjeant. Determination of Ionization constants Chapman and Hall, London.
104. Johnson, C.D. The Hammett Equation, Cambridge University Press, London 1973.
105. Jaffe, H.H., Chem. Rev. 53, 191 (1953).
106. Barlin, G.B. and Perrin, D.D. Quart. Rev. 20, 75 (1966).
107. Yatsimirski, K.B., Kinetic Methods of Analysis, Pergamon Press, Oxford 1966.
108. Bennet, T. and Frieden, E., Modern Topics in Biochemistry, MacMillan, London, P. 43 1969.
109. Osann, G., Poggendorf's, Ann., 67, 372 (1845).
110. Warburg, O., Wasserstoffübertragende Fermente, Verlag Springer, Berlin 1948.
111. International Union of Biochemistry Enzyme Nomenclature, Elsevier, Amsterdam 1965.
112. See Ref. 111.

113. Ladue, J., Wroblewski, F. and Karmen, A., *Science*, 120, 497 (1954).
114. Manual of clinical Enzyme Measurements, Worthington Biochemical, Freehold, N.J. 1971, p. 35.
115. Zimmerman, H. and Henry, Clinical Diagnosis by Laboratory Methods, (Davidsohn, I. and Henry, J. eds.) Saunders, Philadelphia. 1969, p. 691.
116. Seary, R., Diagnostic Biochemistry McGraw Hill, New York, 1969, p. 515.
117. Schapira, R., Drewfus, J., Schapira, G. and Demos, J., Rev. Franc. Etud. Clin. et Biol., 5, 990 (1960).
118. Aebi, V., Richterich, R., Colombo, J. and Rossi, E. Enzymol. Biol. et Clim., 1, 61 (1962).
119. Okinaka, S., Kumagai, H., Ebashi, S., Momoi, H., Toyokura, Y. and Fojie, Y., Arch. Neurol. 4, 520 (1961).
120. Aebi, V., Richterich, R., Stillhard, H., Colombo, J. and Rossi, E., Helv. Paediat. Acta, 16, 543 (1961).
121. Dreyfus, J., Schapira, G. and Demos, J., Etud. Clin. et Biol. 5, 384 (1960).
122. Roy, A., Brower, M. and Woodbridge, J., Paper presented at 1970 ASCP meeting, Atlanta, Ga 1970.
123. Guilbault, G.G. and Hieserman, J., Anal. Chem. 41, 2006 (1969).

124. Methods in Enzymology Edited by Sidney, P., Colowick and Nathan, O., Kaplan, Academic Press Inc., Publishers, New York, 1, 634 (1955).
125. Cherry, J. and Crandall, L., Am. J. Physiol. 100, 266 (1932).
126. Henry, R., Sobel, Ch. and Beckman, S., Clin. Chem. 3, 77 (1957).
127. Tietz, N. and Fiereck, E., Clin. Chem. Acta, 13, 352 (1966).
128. MacDonald, R. and LeFavre, R., Clin. Chem. 8, 509 (1962).
129. Nuchlas, M. and Blackburn, R., J. Biol. Chem. 230, 1051 (1958).
130. Zwez, W., Hagen, A., and Staehler, F., Clin. Chem. 21, 948 (1975).
131. Kramer, D.N. and Guilbault, G.G., Anal. Chem., 35, 588 (1963).
132. Steinberg, D., Baldwin, D. and Ostrow, B.O., J. lab. clin. Med., 48, 144 (1956).
133. Van Bekkum, H., Verkade, P.E. and Wepster, B.M., Rec. Trav. Chim. 78, 815 (1959).
134. Dippy, Jfj. and Hughes, Src., Tetrahedron, 19, 1527 (1963).