

REFERENCES

- 1- *F. Wilkison*, "Chemical kinetics and Reaction Mechanism" vanNOSTRAND REINHOLD Company, -Ney York -Ciminnati-Toronto. Melbonsue (1936) chapter 2;6.
- 2- *K. J. Laidler*, "Chemical kinetics" 2nd. ed. chap. 3,5, MCGRAW-Hill Book Company, New York, (1945).
- 3- *E. A. Moelwyn-Hughes*, "Kinetics of Reactions in solution", clarendon press, Oxford, (1947).
- 4- *K. J. Laidler and H. Eyring*, Ann. N. Y. Acad Sci., 39, 303 (1940).
- 5- *S. Glasstone, K. J. Laidler, and H. Eyring*, "The Theory of Rate Processes", Chap. 8, Mcgraw -Hill Book Compony, New York (1941).
- 6- *John. W. Moore and Ralph Gpeasson*, "Kinetics and Mechanism" John wiley and Sons, New York (1980).
- 7- *A. E. Bradfield and B. Jones*, J.chem. Soc. 1006 (1928).
- 8- *C. N. Hinshelwood, K. J. Laidler and E. W. Timm.*, J. chem. Soc., 848 (1938).
- 9- *G. M. Panchenkov and V. P. LEBEDEV* "Chemical Kinetics and Catalysis" Moscow (1976) chapter 9.
- 10- *J. O. Scherck*, J. chem. Educ., 45, 241 (1968).
- 11- *V. A. Afanasiev and G. E. Zakiov*, "In The Realm of Catalysis", Moskow, (1979), chap. 15.
- 12- *C. K. Ingold*, " structure and Mechanism in organic chemistry", Cornell University Press, Ithaca, New York, chap. 7, (1953).
- 13- *M. R. Dack*, chem. , 51 , 231 (1974).
- 14- *J. G. Kirkwood*, J. chem. phys., 2, 351 (1934).
- 15- *1. Amdur and G. G. HAMMES*, " Chemical Kinetics principles and Selected tpics" Mcgraw-Hill Book Co., New York, N. Y. p. 166, (1966).

- 16- E. S. Amis and G. Jaffe, J.chem. phys., 10, 598 (1942).
- 17- E. S. Amis, J. chem. Etuc., 30, 251 (1953).
- 18- El⁻Hussieny M. Diefallah and A. M. El⁻Nadi, Can. J. chem. 65, 2053 (1978).
- 19- E. M. Arnett, W. G. Bentrude, J. J. Burke and P. M. Duggleby., J. Amer. chem. Soc., 87, 1541 (1965).
- 20- S. Winstein and A. H....Fainbery, J. Amer. chem. Soc., 79, 5937 (1957).
- 21- M. R. J. Dock., chem-Tech., 108 (1971).
- 22- F. Franks and D. J. G. Ives, Quart. Rev. 20, 1 (1966).
- 23- S. Palit, [J. Org.](#) chem., 12, 752 (1977).
- 24- E. S. Amis and J. E. :inton, "Solvent effect on chemical phenomena", Vol. I, Academic press, New York-London, (1973).
- 25- Ahmed M. Azzam, and El-Hussieny M. Diefallah, Z. physik. chem. Neue Folge, 91, 44 (1974).
- 26- El-Hussieny M. Diefallah, paper 3-23 presented at the Fourth Arab chemical conference held in Cairo, Egypt April 26-29, (1975).
- 27- El-Hussieny M. Diefallah, Can. J. chem., 54, 1687 (1976).
- 28- E. Tornmila and M. Murto, Acto. chem. Scand., 17, 1947, 1957, 1985 (1963).
- 29- J. B. Hune and R. Wills, J. Amer. chem. Soc., 85, 3650 (1963).
- 30- J. B. Huye, R. Wills and R. E. Wonkka, J. Amer. chem. Soc., 84, 2915 (1962).
- 31- J. B. Martinand R. E. Eobertsom, J. Amer. chem. Soc., 88, 5353 (1966).
- 32- H. S. Jolinkin and J. B. Hyne, Can. J. chem., 46, 125 (1968).
- 33- R. E. Robertson and S. E. Sugamori, Can. J. chem., 50, 1353 (1972).
- 34- R. L. Moss and J. Il. Wolfenden, J. chem. Soc., 118 (1939).
- 35- W. M. Latimer and C. M. StanskV, J. Amer. chem. Soc., 62, 2019 (1940).
- 36- V. A. Mikailov, J. Struct. chem., 2, 625 (1961).
- 37- A. Ben-Naimand S. Baer, Trans. Faraday Soc., 60, 1736 (1964).
- 38- R. W. Cargill and T. J. Morrison, J. C. S. Faraday, 71, 618 (1975).

- 39- N. G. Foster and E. S. Amis, Z. physik. chem., 7, 360 (1956)
- 40- E. M. Braude and E. S. Stern, J. chem. Soc, 1976 (1948).
- 41- A. Ben-Nairn, 3. phys., chem., 69, 1922 (1965).
- 42- E. M. Diefallah, H. A. Ghaly, M. A. Ashy, M. O. Baghlaf and A. A. E I- Bell-
hi., Acta. chem, 109, 355 (1982).
- 43- D. J. Mclennan., Quart. Rev., 21, 490 (1967).
- 44- F. G. Bradwell, Accunts. Chem. Res., 5, 374 (1972).
- 45- El⁻ Hussieny M. Diefallah, M. A. Mousa, M. A. Ashy and S. A.Gbonaim,
Z. physik, Chem. New Folge, 115, 89 (1979).
- 46- A. Streitwieser, 3. chem. Rev., 56, 121 (1956); C. Reichardt. Angew. Chem.
Int . Ed. 18, 98 (1979).
- 47- E. M. Arnett, W. G. Bentrute, J.J. Burke and P. M. Dugglepy, J. Am. chem.
Sco., 87, 1541 (1965); E. M. Arnett, W. G. Bentrnde and P. M. Duggleby.,
J. Am. chem. Sco., 87, 20UB (1965).
- 48- G. Nemethy and H. A. Scheraga, J. chem. phys. 3b, 3382 (1962).
- 49- F. D. Chattaway and R. J. K. MUIR, J.Chem. Soc., 701 (1934).
- 50- A. I. Vogel, "A Text book Quantitative Inorganic Analysis", Ionymans
Green and Co., 2nd, ed. (1957).
- 51- D. J. Mclennal and R. J. Woly, J. Chem. Soc. Perkin II.,
1373 (1974).
- 52- D. J. Mclennan and R. J. Wony, J.Chem. Soc., 1373 (1974).
- 53- B. D. England and D. J. Mclennan, J. Chem. Soc. (B)., 696 (1966).
- 54- D. J. Mclennan and R. T. Wony, J. Chem. Soc, Perkin Trans II., 279 (1972).
- 55- D. J. Mclennan and R. T. Wony, J. Chem. Soc. Perkin Trans 11., 526(1974).
- 56- D. J. Mclennan and R. T. Wony, J. Chem. Soc. Perkin Trans II., 974(1974).
- 57- J. E. Bunnet., Angew. chem. Internat. Edn., 1, 225 (1962).
- 58- D. J. Mclennan., J. chem. Soc., Faraday Trans I, 1516 (1975).
- 59-F. Y. Khalil and H. Sadek., Z. Phys. Chem. New Folge, 75, 308 (1971).

- 60- A. A. Frost and R. G. Pearson, "kinetic and Mechanism", 2nd, ed. Jhon Wiely & Sons, Inc. New York (1961).
- 61- F. Daniels, J. C. Mathews, P. Bender and R. A. Alberty, "Experimental physical chemistry", 5th. ed, MCGraw-Hill Book Co., Inc. New York (1956).
- 62- H. W. Solzberg, J. J. Morrow, S. R. Coben and M. E. Green, "physical chemistry laboratory, principles and Experiments", Macmillan publishing Co., Inc., New York (1978).
- 63- J. E. Leffler, [J. org. chem.](#), 20,1202 (1955).
- 64- El-Hussieny M. Diefallah, J. chem. Soc., perkin, Trans. II, 1237 (1977).
- 65- El-Hussieny M. Diefallah, M. A. Ashy, and A. O. Baghlof, Can. J. chem., 59, 1208 (1981).
- 66- R. E. Robertson and S. E. Sugamori, J. Amer. chem. Soc, 81,7524 (1969).
- 67- L. Nilling, "the nature of the chemical Bond", p. 53, Cornell University press, Ithaco, New York (1948).
- 68- G. Afreerlof, J. Amer. chem. Soc. 54, 4215 (1932).
- 69- J. F. LAIVE and H. W. IIEINE, J. Amer. chem. Soc., 75, 4514 (1953).
- 70- Rao, J. Indian chem. Soc., 22, 260 (1945).
- 71- H. S. GoINKIN and J. B. HYNE. Can. J. chem., 46, 125 (1968).
- 72- C. S. Rondestvedt, [J. org. chem.](#) 3569 (1976).
- 73- Calfier, Michel, and Micend Rene, la b. chem. org . Synth, 12, 964 (1979).
- 74- A. I. Vogel, "A Text Book of partical organic chemistry", 3d, ed., longman (1975).
- 75- Al. A. Ashy, E. M. Diefallah, A. M. Kholil and M. A. Mouea, Ind. J. chem., 17, 479 (1979).