

: REFERENCES :

- 1) F. Reinitzer, Monatsh. 2, 421, (1888).
- 2) O. Lehmann, Z.Phys. Chem. 4, 462, (1889); Ann.Phys. L.P. 2, 649, (1900); Flussige Kristalle Leipzig: Engelmann, 1904).
- 3) R. Schenk, Kristallinische Flussigkeiten and Flussige Kristalle (Leipzig: Engelmann, 1905).
- 4) D. Vorlander, Kristallinisch Flussige Substanzen, (Stuttgart: Enke, 1908).
- 5) G. Friedel, Ann. Phys. Paris 18, 273, (1922).
- 6) G.H. Brown and R.K. Mishra, J.Agr. Food Chem. 19, 645, (1971).
- 7) G.W.Gray, "Molecular structure and properties of Liquid Crystals", Academic press Inc. Newyork, 1962.
- 8) H. Sackmann, and D.Demus, Fortchr. Chem. Forsch. 12, 349, (1969).
- 9) E. Sackmann, S.Meiboom and L.C.Snyder, J.Ame.Chem. Soc. 89, 5981, (1967)
- 10) A. Saupe, and G.Englert, Phys.Rev.Letters. 11, 462, (1963).
- 11) (a) G.Englert and A.Saupe, Mol.Cryst. 1, 503, (1966).
(b) G.Englert and A.Saupe, Mol.Cryst. and Liq. Cryst. 8, 233, (1969).
- 12) K.D. Lawson and T.J. Flautt, J.Ame. Chem.Soc. 89, 5489, (1967).

- 13) C.L. Khetrapal, A.C.Kunwar, A.S.Tracey and P.Diehl, "NMR, Basic principles and Progress, Vol.9", 'Lyotropic Liquid Crystals' Berlin, Heidelberg, New York, Springer Verlag, 1975.
- 14) P.J.Black, K-D.Lauson and T.J.Flautt, Mol.cryst. and Liq.cryst. 7, 201,(1969).
- 15) C.L. Khetrapal and A.C.Kunwar, In "Advances in Magnetic Resonance" Vol.9, 301-422,(1977).
- 16) C.L. Khetrapal, A.C.Kunwar and A.V.Patankar, Proc. Liquid crystal conference, Bangalore (1973).
- 17) R.C. Long (Jr), J.Magn. Reso. 12, 216,(1973).
- 18) L.W. Reeves, A.S.Tracey and M.M.Tracey, J.Ame. Chem. Soc. 95, 3799, (1973).
- 19) L.W.Reeves, J.S.De Cara, M.SuZuki and A.S.Tracey, Mol. Phys. 25, 1481,(1973).
- 20) L.W.Reeves, M.Suzuki, A.S.Tracey and J.A.Vanin, Inorg. Chem. 13, 999,(1974).
- 21) L.W.Reeves and A.S.Tracey, J.Amer.Chem.Soc.96, 1198, (1974).
- 22) E. Iizuka, J.Phys. Soc. Japan. 34, 1054, (1973).
- 23) E.T.Samulski and A.V. Tobolski, Technical Report No.110, U.S. Naval Research, u.s.Information service (1968).
- 24) E. Iizuka, Polymer J. 5, 62(1973).

- 25) E.M. Purcell, H.C. Torrey and R.V. Pound, Phys. Rev. 69, 37, (1946).
- 26) F. Bloch, W.W. Hansen and M.E. Packard, Phys. Rev. 69, 127, (1946).
- 27) G.R. Luckhurst, In "Liquid crystals and plastic crystals" (G.W. Gray and P.A. Winsor Eds.) Vol. 2, Chapter 7, Ellis Harward Publishers, Chichester, 1973.
- 28) J.A. Pople, W.G. Schneider and H.J. Bernstein, In "High Resolution Nuclear Magnetic Resonance", McGraw Hill Publishers (1959).
- 29) N.F. Ramsey and E.M. Purcell, Phys. Rev. 85, 143, (1952).
- 30) E.D. Becker, "High Resolution Nuclear Magnetic Resonance" Academic Press, New York and London, P-93 (1969).
- 31) P. Diehl and C.L. Khetrapal, In "NMR Spectra Basic Principles and Progress" Vol. 1, (P. Diehl, F. Fluck and R. Kosfeld Eds.), Springer-Verlag, Berlin, Heidelberg, New-York, (1969).
- 32) J.W. Emsley and J.C. Lindon, In "NMR Spectroscopy using Liquid crystal solvents", Pergamon Press, Oxford, New York, Toronto, Sydney, Braunschweig 1975.
- 33) L. Lunazzi, 'Molecular structures by NMR in Liquid crystals' in "Determination of organic structures by Physical Methods" Vol. 6, (F.C. Nachod, J.I. Zuckerman and E.W. Randall Eds.) Academic Press, New-york, London, San Francisco-1976, p-335-413.

- 34) H.S. Gutowsky, Annual Rev. Phys. Chem. 5, 333, (1954).
- 35) L.C.Snyder and E.W.Anderson, J.Chem.Phys. 42, 3336 (1965).
- 36) G. Englert, P.Diehl and W.Niederberger, Z.Naturforsch. 26(a), 1829 (1971).
- 37) J. Bulthuis and C. Mac Lean, J.Magn. Reson, 4, 148 (1971).
- 38) A.D. Buckingham, E.E.Burnell and C.A.De Lange, Mol. Phys. 15, 285, (1968).
- 39) A.Saue, Z.Naturforsch. 20(a), 572,(1965).
- 40) P-Diehl, C.L.Khetrapal and H.P.Kellerhals, Mol. Phys. 15, 333,(1968).
- 41) S.Castellano and A.A.Bothner-By, J.Chem.Phys. 41, 3863,(1964).
- 42) P. Diehl and C.L.Khetrapal, Can. J.Chem. 47, 1411, (1969).
- 43) P.Diehl, H.P.Kellerhals and W.Niederberger, J.Magn. Reson. 4, 352,(1971).
- 44) P.Diehl, P.M. Henrichs and W.Niederberger, Mol. Phys. 20, 139, (1971).
- 45) L.C.Snyder and S.Meiboom, J.Chem. Phys. 47, 1480 (1967).
- 46) S.Meiboom and L.C.Snyder, Acct.Chem. Res. 4, 81, (1971).

- 47) N.J.D. Lucas, Mol. Phys. 22, 147, (1971).
- 48) N.J.D. Lucas, Mol. Phys. 22, 253, (1971).
- 49) N.J.D. Lucas, Mol. Phys. 23, 825, (1972).
- 50) S. Sykora, J. Vogt, H. Bosiger and P. Diehl, J. Magn. Reson. 36, 53, (1979).
- 51) P. Diehl and P.M. Henrichs, Organ. Magn. Reson. 3, 791, (1971).
- 52) R.C. Long, Jr., and J.H. Goldstein, J. Magn. Reson. 34, 361, (1979).
- 53) C.L. Khetrapal, A.C. Kunwar and A.V. Patankar, Org. Magn. Reson. 6, 556, (1974).
- 54) C.L. Khetrapal, A.C. Kunwar and A.V. Patankar, J. Magn. Reson. 15, 219, (1974).
- 55) P. Diehl and W. Niederberger, in "Specialist Periodical Reports, NMR" (R.K. Harris Eds.), Vol. 3 Chapter 11, Chemical Society, London, 1974.
- 56) P. Diehl, Pure Appl. Chem. 32, 111, (1972).
- 57) R.J.B. Maraden and L.E. Sutton, J. Chem. Soc, 199, (1936).

- 58) K.N. Trueblood, E. Goldfish and J. Donohue, Acta. Crystallogr. 14, 1009, (1961).
- 59) M.R. Bramwell and E.W. Randall, J. Chem. Soc. Chem. Commun. 259, (1969).
- 60) T. Azenrod, P.S. Pregosin, M.J. Wieder and G.W.A. Milne, J. Ame. Chem. Soc. 91, 3681, (1969).
- 61) T. Axensod, P.S. Pregosin, M.J. Wieder, E.D. Becker, R.D. Bradley and G.W.A. Milne, J. Ame. Chem. Soc. 93, 6536, (1971).
- 62) D.S. Lister and J.K. Tyler, J. Chem. Soc. Chem. Commun., 152, (1966).
- 63) G. Fronza, R. Mondelli, F. Lelj, E.W. Randall and C.A. Veracini, J. Magn. Reson. 37, 275, (1980).

...