

Références bibliographiques

- [1] **G. Friedel**, les états mésomorphes de la matière. *Ann. Phys.*, 18, 273, (1922).
- [2] **H. Kelker**, Mol. Cryst. Liq. Cryst., 165, 1 (1988).
- [3] **F. Reinitzer**, *Monatsh.Chem.* ,9, 421, (1888) .
- [4] **O. Lehmann**, *Z. Phys. Chem.*, 4, 462, (1889).
- [5] **O. Lehmann**, *Z. Phys. Chem.* ,V 5, 427, (1890).
- [6] **O. Lehmann**, **Verhandl. d. Deutschen Phys. Ges.**, V.16, 1,(1900).
- [7] **G. FRIEDEL**, *Annales de Physique*, 18, 273 (1922).
- [8] **D. W. Bruce**, Inorganic Materials, Seconde édition, Eds D. W. Bruce and D. O.Hare, Wiley, Chichester,U.K., (1996).
- [9] **L. Bouteiller , P. Le Barny**, Liq. Cryst., 21,157, (1996).
- [10] **D.C.Diimitrakopoulos,P.R.L.Malenfant**, Adv.Mater,14,99,(2002).
- [11] **Beaudoin**, M.A.Memoire de metrise, Université de Sherbrook, 29, (2006).
- [12] **M. Mitov**, Les Cristaux Liquides, *coll. Que sais-je ?*, n° 1296, PUF, (2000).
- [13] **F.Bois,M.Bayet** , les cristaux liquides,69005, Lyon,(2006).
- [14] *l'actualité chimique*, N.350, 51,(2011).
- [15] **S. Fuller, J. Hapwood, A. Rahaman, N. Shinde, S. Sproston**, *Liq. Cryst.* 12, 521, (1992).
- [16] **C. Tschierske**, *J. Mater. Chem.* , 7, 1485, (1998).
- [17]**R.B.Meyer, L.Liebert, L.Strzeleck, P.Keller**, *J.phys.Lett.*, 36, L.69, (1975).
- [18] **Dierking**, Textures of Liquid Crystals, , *Die Deutsche Bibliotek*,54,55 (2003).
- [19] **C. Tschierske**, *J. Mater.Chem.* ,81485-1508, (1998).
- [20] **A. J. Slaney, K. Takatoh, J. W. Goodby**, The Optics of Thermotropic Liquid Crystals, *Eds. S. Elston, R. Sambles* Taylor & Francis, London, (1998).
- [21] **C. Tschierske**, *J. Mater. Chem.*, 11, 2647, (2001).
- [22] **P.H.J. Kouwer , W.F. Jager;Mijs,W.J.Picken,S.J.Mater.chem.**,13,458-469, (2003).
- [23] **X. KONG**, *Org. Lett.* ,13, 764, (2011).
- [24] **D. VORLÄNDER**, *Ber. Dtsch. Chem. Ges.* 62, 2831, (1929).
- [25]**G. Friedel**, *Ann. Phys.* ,18, 273-475, (1922).
- [26] **W. Schief, M. Kléman, C. Rogers**, *Proc. R. Soc. A.* ,461, 2817, (2005).
- [27] **J. W. Goodby**, *J. Mater. Chem.* , 1, 307, (1991).
- [28] **R. P. Lemieux**, *Acc. Chem. Res.* ,34, 845, (2001).

- [29] **D. Demus, J. Goodby, G. W. Grey**, Handbook of Liquid Crystals ,Vol.1, Wiley-VCH, Chichester, (1998).
- [30] **Kozlovsky,M.V.Podgornov,F.V.Wang ,G .Haasa**, Phys.Stat.Sol, (2003).
- [31] **Zentel**, *Mkromol.Chem.*,187,1915,(1986).
- [32] **D. Pauluth, K. Tarumi**, *J. Mater.Chem.*,14,1219-1227, (2004).
- [33] **D.Tanner, J. A. Fitzgerald, B. R. Philips**, *Angew. Chem. Int. Ed.*, 28,649-654, (1989).
- [34] **R. N. Eidenschink ,A. M. Häger**, *Mol.Cryst. Liq. Cryst.*, 304, 513-517, (1997).
- [35] **Y. Roichman, V.Wong ,D. G. Grier**, *Phys. Rev.*,E.75, 011407, (2007).
- [36] **P. Palfy-Muhoray**, *Phys. Today*, 60, 54-60,(2007).
- [37] **I. W. Hamley**, *Soft Matter*, 6, 1863-1871, (2010).
- [38] **I. Bury**, Conception et synthèse de dendrimères séquencés de type Janus , Thèse de doctorat, Université Louis Pasteur, Strasbourg, (2004).
- [39] http://www.doitpoms.ac.uk/tplib/liquid_crystals/observing_defects.php,(2011).
- [40] **W. SCHIEF, M. KLÉMAN, C. ROGERS**, *Proc. R. Soc. A.*,461, 2817,(2005).
- [41] **M. L. BLINOV**,Structure and Properties of Liquid Crystals, *Springer*, États-Unis d'Amérique ,121-124, (2011).
- [42] **L. Zadoina**, Composites polymère mésomorphe/nanoparticules magnétiques: vers un matériau magnéto-stimulable, Thèse de doctorat, Université Toulouse III - Paul Sabatier, (2010).
- [43] **P. Oswald, P. Pieranski**, Les Cristaux Liquides : Concepts et propriétés physiques illustres par des expériences , *GB.Science Publishers*, CPI, Paris, T.1, (2002).
- [44] **H.J. Coles, M.N. Pivnenko**, *Nature*, 436,7053- 997,(2005).
- [45] **E. Grelet**,*These de doctorat*,Université Paris VII,(2001).
- [46] **R. SALGHI**, Cours d'analyses physico-chimique des denrées alimentaires II, GPEE, ENSA. Agadir.
- [47] **E. Antonot, R. Marchal**, Chromatographie, Lycée louis vincent, Metz, (1998).
- [48] **D.R.Browning**, Chromatographie, Edition Masson et Cie, (1971).
- [49] **R.Judeinstein**, Cristaux liquides, (1998).
- [50] **V.Dalmeyda**, Chromatographie-Généralités, (2003).
- [51] **D.Kardas**, Synthèse de nouvelles phases stationnaires, GMO, Strasbourg, (2001).
- [52] **J.Maurice**, Chromatographie en phase gazeuse, France, (1993).
- [53] **J.FMiller, J.N.Miller**, Chromatographie en phase gazeuse, (1993).

- [54] **G.Ourisson**, Analyse chimique, Méthodes instrumentales modernes, Edition Masson, Paris, (1997).
- [55] **D.A.Skoog**, Chromatographie en phase gazeuse, (1992).
- [56] **E.Roth**, Traité analyse chimique et caractérisation, , *technique de l'ingénieur*, Istra, Paris, V. P. 2, (1991).
- [57] **J.Tranchant**, Manuel pratique de CPG, Edition Masson, Paris, (1995).
- [58] **F.Oussila**, Etude thermique et analytique de nouvelles phases stationnaires par CPG, Laboratoire de chromatographie, USTHB, Alger,
- [59] **D.Linda**, Effets des hautes températures et du mode de préparation des colonnes capillaires, These de magister, USTHB, Alger, (1993).
- [60] **R. Judeinstein**, cristaux liquides, (1998).
- [61] **S.Héron, A.Tchapa**, Propriétés et caractérisation des phases stationnaires, *Tutoriel, Analusis* ,N° 21, 327-347, Elsevier, Paris, (1993).
- [62] **S. Sebih, S. Boudah**, Analytical performances of two liquid crystals and their mixture as stationary phases in capillary gas chromatography, *Journal of Chromatography A.*, Volume 1087, Issues 1–2, (2002).
- [63] **M. benalia, A.y. badjah-hadj-Ahmed, M. djedid, B.y. Meklati,A.h. al-dujaili**, Analytical Study of Three Liquid Crystals Used as Stationary Phases in Gas Chromatography, *Asian Journal of Chemistry*, Vol.19, No. 3, 1761-1771, (2007).
- [64] **F. Ammar-Khodja, S.Guermouche,M. Guermouche, P.Judenstein,J. Bayle**, Phase Transition Behavior of a New Monotropic Liquid Crystal by Inverse GC, *Chromatographia*, 70, 497–502,(2009).
- [65] **S. A. Kuvshinova, V. A. Burmistrov, D. S. Fokin**, Thermodynamic Properties and Selectivity of Substituted Liquid-Crystal Formylazobenzenes as Stationary Phases for Gas Chromatography, *Journal of Analytical Chemistry*,Vol.64, No.5, 505–508, (2009).
- [66] **S. A. Kuvshinova ,V. A. Burmistrov, D. S. Fokin**, Selectivity and Thermodynamics of the Dissolution of Structural Isomers in the Stationary Phases Based on Nematic 4_Ethyloxy_4'_(ω _hydroxyalkoxy)azo_ and Azoxybenzenes, *Russian Journal of Physical Chemistry A.* , Vol. 84, No. 11,1956–1961, (2010).
- [67] **M. Dahmane, F. Athman, S.Sebih, M. Guermouche,J. Bayle, S.Boudah**, Effect of the chain length on the thermal and analytical properties of laterally biforked nematogens, *Journal of Chromatography A*, Vol.1217, Issue 42, 15, 6562–6568, (2010).

- [68] **S. V.Blokhina, M. V.Ol'khovich, A. V. Sharapova**, Activity Coefficients of Butanol Isomers in Liquid Crystalline Cholestryl Tridecylate According to Data of Reverse Phase Gas Chromatography and Tensiometry, *Russian Journal of Physical Chemistry A*, Vol.84, No. 2, 299–303, (2010).
- [69] **S. V. Blokhina, M. V. Ol'khovich, A. V. Sharapova**, A Thermodynamic Approach to the Selectivity of Liquid Crystalline Reentrant Phases, *Russian Journal of Physical Chemistry A*, Vol.85, No.6, 916–921, (2011).
- [70] **Z .Wei, L. Wang, L.Jing, X.Liu, S.Jiang**, Cyanobiphenyl-Mesogened Liquid Crystalline Polymer Bonded on Silica as the Stationary Phase with Shape and PolarityRecognition for LC, *Chromatographia* ,73,5–16,(2011).
- [71] **K. Mizuta, M. Katashima** , Synthesis of chiral side-chain liquid crystalline polyacetylenes bearing succinic acid spacer, *Polym. Bull.* 68, 623- 634, (2012).
- [72] **Wei ZH, Mu LN, Huang YP, Liu ZS** , Cyanobiphenyl- Mesogened Liquid cristalline polymer Bonded on Silicaas phase stationary, *Chromatographia*,73,5,16, (2012).
- [73] **J.Mesplède, C.Saluzzo**,100 manipulations de chimie organique et inorganique, Nouvelle édition, Breal, France, pp. 287, (2004).
- [74] **G.H.Al-Aubaidi**,preparation and caracterisation of some new derivatives of 1,3,4-oxadiazole, and studying their mesomorphic behaviour and the effect of their chemical constitution on this behaviour, Université de Bghdad, Iraq, (1998).
- [75] **ŞG. Kömürcü, S. Rollas, M. Ülgen, JW. Gorrod, A. Çevikbaş**, Evaluation of some arylhydrazones of p-Aminobenzoic acid hydrazide as antimicrobial agents and their in-vitro hepatic microsomal metabolism. *Boll Chim Farmaceutico*, 134, 375-379(1995).
- [76] **Zamani, K.**, Synthesis of Some New Substituted 1,2,4-Triazole and 1,3,4-Thiadiazole and their Derivatives. *Turk. J. Chem.*, 27, 119-125, (2003).
- [77] Speziale, A. J. , "Ethanedithiol", *Org. Synth., Coll. Vol. 4*, p 401, (1963).
- [78] **G. Rothenberg, A.P. Downie, C.L. Raston, J.L. Scott**, *J. Am. Chem.Soc.*, 123, 8701-8708, (2001).
- [79] **D.R.Lide**, Handbook of chemistry and Phisics , 74 ème edition , CRC, (1996-1997).