

REFERENCES

REFERENCES

- 1- Perkin, W.H., *J. Chem. Soc.*, 53 (1968).
- 2- Schmidt and Placher, *Arch. Pharm.*, 242, 288 (1908).
- 3- Spath and Dobnovolny, *Ber.*, 70, 83 (1937).
- 4- Ahluwalia, V.K.; Sechari, T. R. and Pandu. V.; *J. Indian Chem.*, 9 (3) 194 (1971);
C.A., 75, 5753 (1971).
- 5- Schellhammer, Carlowseng, Florin, C.A., 86, 121164 (1977).
- 6- Zoln, C.; Hu; *Xiangatn Daxu Ziran Kexue Xuebas.*, 12 (2), 79 (1990); C.A.,
114, 8150, (1990).
- 7- Hrnaiar, P., Gaplovsky, A. and Donovalova, *J. Chem. Pap.*, 43 (5), 669 (1989);
C.A. 113, 6101 (1990).
- 8- Enrico, C.; Cancellier, A. and Salamon, L., *Ann. Chim. Rome*, 57, 207 (1967);
C.A., 68, 2776 (1968).
- 9- Avetisyan, A.A., Vanyan, E.V.; Cezalyan, D.I., Galstyan; A.C., *Arm. Khim Zh.*, 40
(4), 239 (1987) (Russ).
- 10- Sreenivasula, B.; Mustly, V.S.; and Rao, N.V.S, *Cun-Sci.*, 38, 240 (1969); C.A. 71,
91218 (1969).
- 11- Andreichikov, Yu.S.; Tokmakova, T.N., *Zh. Org. Khim*, 23 (4), 880-5 (1987)
(Russ).
- 12- Tripathy, Pradeep K., Mukerjee Arya, K., *Indian J. Chem.*, 26 B (1), 1, 61 (1987)
(Eng).
- 13- Schlaepfev, Hans, C.A. 81, 51143 (1974).
- 14- Chandra, Visharum Pressed, Sant, *J. Indian Chem. Soc.*, 52, 1223 (1975); C.A., 85,
46309 (1976).
- 15- Kambe, Satashi; Takajo, Tokiharu; Hayash, Toshio; Midarikawa, Hiroshi, *Bull.*
Chem. Soc. Jpn, 50, 1643 (1977) (Eng.); C.A., 87, 68083 (1977).
- 16- Merchant, Jaysukhlal, R.; Gupta, Avinds, *Chem. Ind. (London)*, 16, 628 (1978)
(Eng.); C.A., 90, 121349 (1979).

- 17- Lakshmi, A. Sree; Rao. K. Venkateswara, Sundara Murthy, V.C.A., 90, 203921 (1979).
- 18- Hamad, M.M.; El-Faragy, A.F.; Said, S.A. and Fahmy, A.A.; Pak, J. Sci. Ind. Res., 33 (12), 515 (1990); C.A., 115, 158906 (1991).
- 19- Suabba Rao, N.V. and Sundara Murthy, N., Proc. Ind., Acad. Sci., 54, 321 (1961); C.A., 57, 16536 (1962).
- 20- Crawford, M. and Shaw, J.A. M., J. Chem. Soc., 3435 (1953).
- 21- Horining et al., Org. Synth., 28,24 (1948).
- 22- Cigolani, E., Gazz. Chem. Ital., 84,843 (1954); C.A., 50, 232 (1956).
- 23- Thakar, K.A. and Goswami, D.D., Indian J. Appl. Chem., 35, 93 (1972); C.A., 82, 43131 (1975).
- 24- Kakenyaku kakoco., et al., 96, 181149 (1982).
- 25- Schevernann, Harst., Niach, Walfgung; Radtke, Valker; C.A., 81, 51135 (1974).
- 26- Brunskill, J.S.A.; Elagbar, Z, De. A.; Jeffery, H.; Ewing, D.F., Synth. Commun, 8 (8), 533 (1978) (Eng.); C.A., 91, 54773 (1979).
- 27- Phansalkar, Mahesh, S.; Deshmukh, Keshav, K.; Kelkar, Shriniwas, L.: Wadia, Murzbon, S., Indian J. Chem. Sect B, 26B (6), 562 (1987) (Eng).
- 28- Rajyalukshmi, K., Srinivasan, V. R., J. Heterocyclic Chem., 17, 17379 (1980); C.A., 94, 139595 (1981).
- 29- Faulques, Michelle; Rene, Loic, Rayer, Rene; Averbek, Dietrich, Eur., J. Med. Chem-Chim. Ther., 19 (4), 365-70 (1984) (Fr.); C.A., 102, 24514 (1985).
- 30- Shirokova, E.A.; Segal, G. M.; Torgov. I. V. (CI-COTD 311/12), 15 Mar. (1985), Appl. 3-622, 442, 02 Jun. (1983) from Otkrytia, Izaobret, 79 (1985); C.A., 103, 141842 (1985).
- 31- Phadke, Cheton, P.; Kelkar. S., L.; Wadia, M., S., Synth. Commun, 14,407 (1984); C.A., 103, 171028 (1984).
- 32- Borse, A., P.; Kelkar, S., L., Wadia, M., S., Indian J. Chem., Sect. 26B (12), 1180 (1987) (Eng).
- 33- Tejawani, R.B.; Nazevuddin, G.M.; Kelkar, S.L.; Wadin, M.S., Indian J. Chem. Sec. B, 28B (5), 414 (1989); C.A., 112. 35633 (1990).

- 34- Kuriyama, Kiyoshi, Nakano S. Itikawa; C.A., 94, 47335 (1981).
- 35- Nara Sinhan, N. and Mali, R., *Tetrahedron*, 30, 4153 (1974).
- 36- Mentzer, C.; Meunier P., *Bull. Soc. Chim.*, 10, 356 (1943); C.A., 36, 2649 (1944).
- 37- Ahluwaila, V.; prakash, C.; Jolly, R.; *Gass. Chim. Ital*, 109, 641 (1979).
- 38- Mali, R.; Yeole .S.N.: Kulkarni. B.; *Indian J. Chem.*, 22B, 352 (1983).
- 39- Mali, R.S; Manekar. Anita R.: Tilve, S.G., *Indian J. Chem.*, 29 B. (2), 113 (1990); C.A., 113, 40397 (1990).
- 40- Selim, M.R.; El-Agrody, A.M.; Aly, F.M.; Bedair, A.H; and Hassan, M.F.; *Sci. Phys. Sci-2* (2), 94 (1990); C.A., 114, 206950 (1991).
- 41- Bechmann and Duisberg, *Ber.*, 16; 2119 (1883).
- 42- Dressler, H. and Reade, K.G.; U.S., 3, 503, 99 (CL.260,342-3, CO7D (1970); C.A., 72, 132523 (1970).
- 43- Jiarong, L. and Ailion, T.; C.A., 98, 143234 (1983).
- 44- Patel ,B.D. and Bakil K.V., *Univ. Bombay*, 11, 92 (1943); C.A., 37, 5969 (1943).
- 45- Parekh, G.M. and Trievedi, K.N., *J. Ind., Chem. Soc.*, 46 (9), 815 (1969); C.A., 72, 3311 (1970).
- 46- Fritz, E. and Meins, P. *Arch. Pharm. (Wein Heim)* 303 (12), 993 (1970); C.A., 74, 3513 (1971).
- 47- Shan, R.H. and Shah, N.M., *J. Ind. Chem. Soc.*, 19, 481 (1942).
- 48- Roberston, A. and Sandrock , W.F., *J. Chem. Soc.*, 1180 (1932).
- 49- Ahluwalia, V.K., Sunita, *Indian J. Chem.* 11 (12), 124 (1973); C.A., 80, 33190 (1974).
- 50- Virha, R., Chichin, P.; Schumb, N. Meded, *Fac. Londbou Wetensch, Rijksuniv Gent*. 138 (1), 119 (Eng); C.A., 80, 133362 (1974).
- 51- Pierre Debalnj, A.; Jean Gabriel, P.; Yespacal, (*synthe. Labo*) Fr., *Demande* 2, 184-511 (CL-A 6lk CO7D) 01 Feb-1974, *Appl.* 7218, 025-19 (1972), 9 PP.; C.A., 80, 146020 (1974).
- 52- Chutterji, D., Chakraborty, P. D., *J. Indian Chem. Soc.*, 49, 1045 (1972) (Eng.); C.A., 78, 71844 (1973).

- 53- Bhardwaj, Devendrak; Murrori, Ramaswamy, Sechadri, R. Tiruvenkata; Singh Radhika, *PhotoChemistry*, 15 (7), 1182 (1976) (Eng.), C.A., 86, 29251 (1977).
- 54- Wagle, D.R., Usgaonkar, Usha; Usgaonkar, R.N., *Indian J. Chem., Sect. B*, 16B (5), 378 (1978); C.A., 89, 163472 (1978).
- 55- Plike, Jaromir Fisar, *Ctidor Czech.*; C.A., 92, 26279 (1980).
- 56- Ahluwalia, V.K.; Dhingra Sunita; C.A., 94, 103119 (1981).
- 57- Kulkarni, Manohar, V., Pujar, Bassayya, G., Patil Vemanna D., *Arch. Phar. (Wein Hiem)* 316,15 (1983); C.A., 98, 143233 (1983).
- 58- Bayer, V.; Pastor, R., Cambon. A., *J. Fluorine Chem.*, 20, 187 (1982); C.A., 97, 144728 (1982).
- 59- Chatterjee, A., Mallik, R., *Indian Synthesis*, 715 (1980); C. A., 94, 3897 (1981).
- 60- Mueller, J.P.M.; Har. A.A.; Kurth, H.J.; Dienick, D., *J. Labelled Compd. Radio Pharm.*, 15261 (1978); C.A., 91, 39255 (1979) .
- 61- Bird, Clire W., bulter, Holene I.; Hawi, Amal. *Chem. J. Ind. (London)* 4, 145-6 (1984); C.A., 100, 191698 (1984).
- 62- Parmar, V.S.; Singh, Suddham; Rathore, J.S; *Indian J. Chem. Soc.*, 64 (4), 254 (1987).
- 63- Bose, P; Banerji, *Indian J. Chem.*, 29 (5) 422 (1990); C. A., 113, 191095 (1990).
- 64- Kamezawa, Makoto; Kohara, Kazuko; Tachibana, Jojun; *Nippon Kagaku Kaishi*, 12, 1956 (1982); C.A., 98, 107121 (1983).
- 65- Belletre, J.L.; Danahn, K., Kellog, M., *J. Heterocyclic Chem.*, 16, 803 (1979); C.A., 91, 07861 (1979).
- 66- Corrie, John E. T.; *J. Chem. Soc., Perkin Trans. 1* (7), 2151 (1990); C.A., 113, 171834 (1990).
- 67- Ahluwalia, V.K.; Sunte, *Indian J. Chem. Sec . B.*, 16 B (6), 528, (1978); C.A., 89, 179795 (1978).
- 68- Ahluwalia, V.K.; Mukherjee, Rani, Nimmi, *Indian J. Chem.*, 20, 918 (1981); C.A., 96, 104030 (1982).
- 69- Verom, Braham S., Abral Vaena; Songuan, Naresh K. and Malik, O.P.; *Chem. Acta Turc.* 17 (3), 433 (1989); C.A., 114, 42491 (1991).

- 70- Grandberg, I.I.; Denisov, L.K.; Melnikova, L.M.; Poppva O.A.; Tokmakov, G.P.; Drozd V.N.; Knyazev, V.N., IZ .V. Timirya Zeusk, S.H. Akad., 4, 149-52 (1984); C.A., 102, 78675 (1985).
- 71- Kour, M.; C.A.; 73, 13088 (1970).
- 72- Aleksyuk, M.P.; Zalukaev, L.P.; Plouekokov, I.T.; Sheserban, A.I.; Zh-Khim (1972); C.A., 77, 164388 (1972).
- 73- Kirkiacherian, S.B. and Mentzer, C. Bull. Soc. Chem. Fr., 3030 (1968); C.A.; 69, 96495 (1968).
- 74- Quevalpierre, J., C.A., 74, 3518 (1971).
- 75- Urhan and Mentzer, Bull. Soc. Chim.Fr., 11, 171 (1944).
- 76- Lefeuvre, A.D., Sci. Phys. Chim., 3, 58 (1966); C.A., 69, 35898 (1968).
- 77- Kiirpichenok, M.A.; Gorzhankin, S.K.; Grandberg, I.I.; Khim. Jeterotsikl. Soedin 6, 830 (1990); C. A., 114, 81500 (1991).
- 78- Abdel-Latife, F.F.; Gazz. Chim. Ital. 121 (1), 9 (1991); C. A., 115, 8518 (1991).
- 79- Cqula, P.D.D., Motse, D. W. S.: Sipamla, A. M., Meiring D.H.; C.A. 84., 150452 (1976).
- 80- Hans, D. and Kenneth, R. U.S., Patent, 3, 503, 996 (Cl-260-342-2; CO 7D) 31 Mar- (1970), Appl. 17 Jul. (1967): 2 PP., C.A., 72, 132523 (1970).
- 81- Li, Jiarong, Tang, Ailion; Wang, Mingshi; Zhong Caoyao, 13, 493 (1982); C.A., 98, 143234 (1983).
- 82- El-Nagdy, S., Soliman, A.Y.; Bakeer, H. M.; Yossef, A. M., J. Chem. Soc .Pak. 12 (3), 230 (1990); C.A., 115, 71327 (1991).
- 83- Koppe T.; Sollmon, F.S.G., J. Heterocyclic Chem., 377 (1976); C.A., 85, 32767 (1976).
- 84- Sato, K.; Ohashi, M.; Amakasu, T.; Takeda K. Bull. Chem. Soc. Jop., 42. 2319 (1969); C.A., 71, 101645 (1969).
- 85- Nardi Donte and Terzana Alberta, Ger. Offen 2, 308, 187 (Cl-CO-7D) 20 Sep. (1973), Ital. Appl. 21, 254 A, 72, 01 Mar. (1972), 11p.; C.A., 78, 137171 (1973).
- 86- Das Gupta, Arunk and Paul, M. S., J. Ind. Chem. Soc., 47 (10), 1017 (1970); C.A., 74, 99791 (1971).

- 87- Das Gupta, K. A. Das Gupta Amitava, K. R., *Indian J. Chem.*, 10 (1), 32 (1972); C.A., 76, 153499 (1972).
- 88- Kobayashi, Goro; Matsuda, Yoshiro; Natsuki, Reiko and Tominago, Yoshinori, *Yakugaku Zasshi*, 93 (7), 836 (1973); C. A., 78, 91910 (1973).
- 89- Ya II Chenko, A.; Koval, R.E.; krokhryak, V.I.; Yagupol, Skii, L. M., *Zh. Org., Khim.*, 17, 2630 (1981); C.A., 96, 142636 (1982).
- 90- Starkov, S.P.; C.A., 92, 215214 (1980).
- 91- Balayan, R.S.; Akopan, M.G.; Kaltrikyan, A. A.; Arakyari, D.M.; Markaryan, E.A., *Arm. Khim. Zh.* 36 (7), 451 (1983); C.A., 100, 34210 (1984).
- 92- Chemault, Jacques; Dupin, Jean Francois E., *Heterocycles*, 20, 437 (1983); C.A., 98, 215448 (1983).
- 93- Dupin, Jean Francois, E.; Chenoult, Jacques, *Heterocycles*, 20, 240 (1983); C.A., 100, 138807 (1984).
- 94- Boger, Dale L., Mullican, M.; D.; *Org. Synthesis*, 65, 98 (1987); C.A., 111, 57483 (1989).
- 95- Clinet, J. C., *Tetrahedron Lett.* 29 (46), 5901 (1988); C.A., 111, 97040 (1989).
- 96- Bhattacharjee, J., Paknikar, S.K., *Indian J. Chem.*, 28 B (3) 205 (1989); C.A., 112, 5529 (1990).
- 97- Anjaneyln, A. S.R.; Sudharani, G.; Mallovadhani; U. V. and Murthy, Y.L.N., *Indian J. Chem.*, 30 B (7), 707 (1991); C. A., 115, 114314 (1991).
- 98- Woods, L.L. and Hollands, V. *Tex. J. Sci.*, 21, 91 (1969); C.A., 72, 12486 (1970).
- 99- Hoilbron, I. M. and Hill, D.W., *J. Chem. Soc.*, 1705 (1927).
- 100- Milchioce, Carlo; Gannella, Maria; Gualtieri, Fulvio, *Ann. Chim.* 62 (3), 216 (1972); C.A., 77, 139731 (1972).
- 101- Tomek, Bohumil; Induch, Minoslav and Gabriel Jiri (Zech. 153,829 Cl. CO7D), 15 Jan, (1974), *Appl.* 3209171, 04 May (1971), .; C.A., 82, 43174 (1975).
- 102- Stahmann, M.A.; Wolff. I. and Link, K.P., *J. Am. Chem. Soc.*, 65, 2285 (1943).
- 103- Silvio, G.; Lorenzo, P.V.; Franco, Gozz, *Chim. Ital.*, 98, 1488 (1968); C.A., 70, 96547 (1969).
- 104- Donochke, G., *J. Prakt. Chem.*, 5, 807 (1969); C.A., 72, 12474 (1970).

- 105- Donochke, G. and Oelmenn, H., *J. Pract. Chem.*, 311, 800 (1969); *C.A.*, 72, 12484 (1970).
- 106- Ahluwalia, V.K.; Parkash, Chandra; Gupta, Y.K., *Nalt; Acad., Sci., Lett (Indian)*, 1 (6), 215 (1978); *C.A.*, 84, 179800 (1978).
- 107- Bukle, Derek-Bichard; Morgen, Neil, Jhon; *C.A.*, 91, 33319 (1979).
- 108- Ahluwalia, V.K.; Prakash, Chandra; Rani Nimmi, *Indian J. Chem., Sect. B.*, 16 B (5), (1978); *C.A.*, 90, 87190 (1979).
- 109- Ogawa, Akjua; Kambe, Nobuaki; Muaria, Shinji; Sonoda, Nobow, *Tetrahedron*, 41 (21), 4813 (1985); *C.A.*, 105, 226274 (1986).
- 110- Ahluwalia, V.K.; Rani Nimmi; *Indian J. Chem. Sect. B.*, 15B (11), 1003 (1977); *C.A.*, 88, 169891 (1979).
- 111- Patil, Vinayak, O.; Kelkar, Shriniwas, L.; Wadia, Murzban S., *Indian J. Chem., Sect. B.*, 26 B (7), 674 (1987).
- 112- Aly, Fawzy M.; Bedair, Ahmed., H.; Selim, Mohamed R., *Afinidad*, 44 (412), 489 (1987).
- 113- Borse, A.P.; Kekar, S.L.; Wadia, M.S., *Indian J. Chem., Sec. B*, 26B (12), 1180 (1987); *C.A.*, 109, 190190 (1988).
- 114- Desphande, A.R.; Parakar, M.V.; *Indian J. Chem., Sect B*, 27 B (6), 524 (1988); *C.A.*, 109, 230730 (1988).
- 115- Britto, N.; Gore, V. G; Mali, R.S.; Ranade; A.C.; *Synthesis Commun.*, 19 (11-13), 1899 (1989); *C.A.*, 112, 138867 (1990).
- 116- Sharma, I.; Roy, S., *Indian J. Chem., Sect. B*, 27B., 374 (1988); *C.A.*, 111, 39148 (1989).
- 117- Srenivasulu, B.; Musthy, V.S.; Rao, N.V.S., *Cun Scr.*, 38, 240 (1969); *C.A.*, 71, 91218 (1969).
- 118- Merchant, J.R.; Kamath, M.; Dike, Sunaely, *Proc. Indian Acad. Sci.*, 85 A., 115 (1977); *C.A.*, 87, 68076 (1977).
- 119- El-Kady, M.; Afify, A.; El-Hashash, M.; Kassab, E., *Polish Journal of Chemistry*, 56 68076 (1982).

- 120- Brahmabhatt, D.I.; *J. Indian Chem. Soc.*, 66 (7), 481 (1989); *C.A.*, 112, 76885 (1990).
- 121- Brahmabhatt, D.I.J., *Indian Counc. Chem.*, 3 (1), 53 (1987); *C.A.*, 112, 20875 (1990).
- 122- Rene, Loic; Lefebvre, Alain; Auzou, Gilles, *Synthesis* (7), 567 (1987).
- 123- Rao, C. Prasad Srimannarayana, G., *Synth. Commun.*, 17 (12), 1507 (1987).
- 124- Ahluwalia, V.K., Mittal, Bina; Mehta, Vimal, D.; *Indian J. Chem., Sect. B*, 27B (12), 1148 (1988); *C.A.*, 111, 77807 (1989).
- 125- Patra, A.; Misra, S.K., *Indian J. Chem. Sect. B*, 29B (1), 66 (1990); *C.A.*, 112, 198056 (1990).
- 126- An, Zhong W.; Catellani, M.; Chivsolli, C.P., *J. Organomet. Chem.*, 371 (3), C 51 (1989); *C.A.*, 112, 98334 (1990).
- 127- Petkov, I.; Bozhilova, A.; Markov, P., *Monatsch Chem.* 121 (1), 85 (1990); *C.A.*, 113, 40399 (1990).
- 128- Abudakar, A.B.; Booth, B.L.; Tipping, A.E.; *J. Fluorine Chem.* 47 (2), 353 (1990); *C.A.*, 113, 78087 (1990).
- 129- Cingolani, E.; *Gass. Chim. Ital.*, 89, 985 (1959); *C.A.*, 54, 22616 (1960).
- 130- Marle, A.J. and Lyons, L.E., *J. Chem. Soc.*, 1575 (1950).
- 131- Crawford, M. and Mshaw, J.A., *J. Chem. Soc.*, 3435 (1953).
- 132- Conter, F.W. and Roibertson, A., *J. Chem. Soc.*, 1875 (1931).
- 133- Crawford, M. et al., *J. Chem. Soc.*, 3434 (1955).
- 134- Zagorevskii, V.A.; Savelev, V.I.; Dudykina, N.V.; *Zh. Khim.*, (1971); *C.A.*, 76, 140433 (1972).
- 135- Bhausar, M.D. and Sesai Seai, R.D., *J. Ind. Pharm.*, 13, 200 (1951); *C.A.*, 65, 10827 (1966).
- 136- Schonberg, A., et al., *J. A. Chem. Soc.*, 77, 5390 (1955).
- 137- Kroke and Christens, *J. Org. Chem.*, 24, 523 (1959).
- 138- Rios, Tirso; Flores, R.M.; *Rev. Latinoam Quim.* 7, 33 (1976); *C.A.*, 85, 17061 (1976).

- 139- Iguchi, S. and Hisatune, K.; *Yakugaku Zosshi.*, 77, 1258 (1977); C.A. 52, 6332 (1958).
- 140- Jain, A.C.; Mathur, A.K.; Tyagi, O.D., *Indian J. Chem.*, 24 B (5), 549 (1985); C.A, 104, 168246 (1986).
- 141- Joshi, S.D.; Usaganokar, R.N., *Indian J. Chem.*, 21 B (5), 399 (1982); C.A., 98, 34524 (1983).
- 142- Ito, K., Nakajima, K., *J. Heterocyclic Chem.*, 25 (2), (1988); C.A., 110, 23679 (1989).
- 143- Palfray, J. Am., *Chem. Soc.*, 63, 33540 (1941).
- 144- Welton, A.R.; Harold, G.; C.A., 77, 114136 (1972).
- 145- Benneville, P.L and Conner, R., *J. Am. Chem. Soc.*, 62, 383 (1940).
- 146- Kirkiacharian. B.; Serge, C.R., *Seances, Acad, Sci. C.*, 291, 73 (1980); C.A., 94, 30489 (1981).
- 147- Verma, Parul; Singh, Sangeeta; Dikshit, D.K.; Ray, Suprabhat, *Synthesis* (1), 68 (1988).
- 148- Prafenov, E.A.; Saveliev. V.L.; Smirnov, L.D. *Khim. Gesterotsikl. Soedin* (3), 423 (1989) (Russ); C.A., 114, 194520 (1991).
- 149- Parfenov, E.A; Smirnov, L.D.; *Khim. Gesterotsikl. Soedin*, (8), 1135 (1990), (Russ) C.A., 114, 81508 (1991).
- 150- Zagoreveshii, V.A., et al., *Zh. Obshch-Khim.*, 33, 1695 (1963); C.A., 59, 11416 (1963).
- 151- Zagoreveshii, V.A. and Savel, N.L., *Zh. Obshch-Khim*, 34, 2290 (1964); C.A. 61, 1191 (1964).
- 152- Tahagi, Kaname; Morita, Hikari; Nagahara, Katsuhiks; Takada, Astushi, *Chem. Pharm. Bull.*, 30, 4526 (1982); C.A., 98, 107249 (1983).
- 153- Hanmantagad, S.S.; Kulkarni, M.V.; Patil, V.D; *Natl. Acad. Sci. Lett.*, 7 (3), 77-8 (1984); C.A., 103, 53986 (1985).
- 154- Hishmat, O.H.; Miky, J.A.A.; Farrag, A.A., Fadl-Allah, E.M. *Arch. Phrmacol. Res.*, 12 (3), 181 (1989); C.A., 112, 178572 (1990).

- 155- Sammour, A; Marei, A.; El-Ashry, S., *J. Chem. U.A.R.*, 13 (3), 281 (1970); *C.A.*, 74, 87758 (1971).
- 156- Sammour, A.; Selim, M. I.B; El-Kady, M., *J. Chem. U.A.R.* 14 (3), 261 (1971); *C.A.*, 77, 114185 (1972).
- 157- Bedair, A.H., *J. Prakt. Chem.*, 329 (2), 359 (1987); *C.A.* 108, 21670 (1988).
- 158- El-Agrody, A.M.; Abdul-Ghany, A.R.; Bedair, A.H.; Gazal, S.A.; *Afindad* 45 (417), 447 (1988); *C.A.*, 111, 7181 (1989).
- 159- Chantegrel, Bernard, Abdel Ilah, Nadi; *Gelin, Syzanne Synthesis*, (3), 2 1 4 (1983); *C.A.*, 98, 198100 (1983).
- 160- Badran, M.M.; El-Ansari, A.K.; El-Meligie, S.; *Revue Roum. Chim.*, 35 (6), 777 (1990); *C.A.*, 115, 49325 (1991).
- 161- Tubakovie, I.; Tokovinic, M.; Juric, A.; Trinujstic, N., *J. Heterocyclic Chem.*, 17, 801 (1980); *C.A.*, 94, 3973 (1981).
- 162- Sailaja, G.; Raju, K.; Mohana, Raju, M. Subramanyam, *Indian J. Chem.*, 24 B (2), 206 (1985); *C.A.*, 103, 37330 (1985).
- 163- Nagesam, M.; Raju, M. Subramanyam; Raju, K. Mohana, *J. Indian Chem. Soc.*, 64 (7), 418 (1987).
- 164- Nagesam, M.; Raju, K. Mohana; Raju, M. Subramanyam; *Chim. Acta. Turc.*, 17 (2), 255 (1989).
- 165- Vyas, R., Bapat, S., Mehta, R.H; *J. Indian Chem. Soc.*, 67 (6), 484 (1990); *C.A.*, 114, 101634 (1991).
- 166- Bedair, A.H.; Aly, F. M; El-Assy, R.K.N, *Indian J. Chem., Sec . B*, 26 B (1), 91 (1987).
- 167- Salem, M.A.I., El-Kasaby, M.A., *J. Chem. Soc. Pak.*, 9 (2), 177-81 (1987).
- 168- Sakellurion, R., speziale, V.; Hamdi, M., *Synth. Commun*, 206221, 3443 (1990); *C.A.* 115, 8514 (1991).
- 169- Jankwski, K. Vople Y.; Salas C.; *C.A.*, 91, 157551 (1979).
- 170- Absu Assali, M., Deccret G., Dueux J., *J. Tetrahedron*, 32, 1655 (1967); *C.A.*, 86, 55240 (1977).

- 171- Mohamed. M. M., Hassan, M.A.; El-Borai, M., *J. Chem. Pak.*, 6 (4), 233 (1984); C.A., 101, 54863 (1984).
- 172- El-Kady, M.; Sayed, G.H.; Saleh, R.M.; Mosa, Hoda, M., *J. Chem. Soc. Pak.*, 8 (2), 91 (1986).
- 173- El-Kady, M.; Sayed, G.H.; Saleh, R.M.; Mosa, Hoda, M., *Egypt. J. Chem.*, 28 (1), 19 (1985) (Pub. 1986).
- 174- El-Kady, M.; Sayed, G.H.; El-Gendy, A.M.; El-Sherif, M., *Egypt. J. Chem.*, 28 (1), 63 (1985) (Pub. 1986).
- 175- Bedair, A. H.; Aly, F.M.; El-Agrody, A.M.; Selim. M.R., *J. Serb. Chem. Soc.*, 51 (6), 303 (1986).
- 176- Aly, F.M., Bedair, A.H.; El-Agrody, A.M., *Indian J. Chem. Sec. B*, 25 B (12), 1255 (1986).
- 177- Holmberg Gust, A.; Malmstrom Folke and Wennstromulf. *Act. Chim. Sund.*, 27, 2023 (1973); C.A., 80, 47778 (1974).
- 178- Tickle, Bichard, W.; Milton, Timothy; Eluidge John A. J., *Chem. Soc., Perkin Trans* 5, 569 (1974); C.A., 80, 3725 (1974).
- 179- Bedair, A.H.; Aly, F.M.; El-Agrody, A.M., El-Assy, R. K.M., *J. Indian Chem. Soc.*, 65 (7), 519 (1988); C.A., 110, 75247 (1989).
- 180- El-Mobyed, M.; Bayoumy, B.E.; Haikel, A.F. *An. Quim.* 86 (1), 59 (1990); C.A., 114, 42492 (1991).
- 181- El-Kady, M. and Essawy, A.I., *Pakistan, Journal of Science*, 30, 93 (1978).
- 182- Ghiya, B. J. and Morathey, M.G., *J. Ind. Chem. Soc.*, 42, 299 (1965); C.A., 63, 5590 (1965).
- 183- Zykov, D.A., Markova, G.A.; Kirsanova, Z.D.; Shestaeva. M.M.; Kaverina. N.V. and Zagoresveskii, V.A., *Khim Farm. Zh.* 5 (9), 23 (1971); C.A., 76, 99430 (1972).
- 184- Halbedel, H.S. and Hearnthy, J.C.; C.A.; 44, 1143 (1950).
- 185- Gordeeva, N.A.; Kirpichenok, M.A.; Grondberg, I.I., *From Otkrytiyo, Izobret.* (26), 89 (1990); C.A., 114, 42577 (1991).

- 186- Bozhilova, A., Ivanov, Kh.; *Dokl. Bolg. Akad. Nauk*, 42 (12), 83 (1989); C.A., 114, 101625 (1991).
- 187- Huang, B., Liu, J.; Huang, W., *J. Chem. Soc., Chem. Commun.*, (24), 1781 (1990); C.A., 114, 121964 (1991).
- 188- Matsui, M.; Muramatsu, H.; Nakayama, M., *Syn. Lett* (2), 113 (1991); C.A. 114, 206952 (1991).
- 189- Junk, H., *Monatsh*, 96, 1412 (1965); C.A., 64, 3508 (1966).
- 190- Danilova, E.M.; Atamonova, T.; C.A. 91, 39261 (1979).
- 191- Vishnyalkova, G.M.; Smirnova, T.V.; Perina, A.I.; Sugrobova, L.V.; *Khim-Khim Technol.*, 22, 283 (1979); C.A., 91, 39268 (1979).
- 192- Dergiger, Ernst.; C.A., 87, 39281 (1977).
- 193- Nagai, Shigeki; Hirsta, Yojiro; Yorie, Takashi, Hibi; Takuo, Aoi, Asao; C.A., 89, 197338 (1978).
- 194- Eiden, Fritz.; Zimmerman, Elke. *Arch. Pharm.*, 309 (B), 619 (1976); C.A., 86, 43505 (1977).
- 195- Dike, Suneel, Y.; Merchan, Jay Sunkhlal, R., *Tetrahedron Lett.*, 38, 3607 (1978); C.A., 90, 186874 (1979).
- 196- Trividi, K.V., *J. Ind. Sci.*, 18 B, 397 (1959); C.A., 54, 7698 (1960).
- 197- Sammour, A.; Abdalla, M. and El-Kady, M., *Acta. Chem.*, 82, 369 (1974).
- 198- Sammour, A. and El-Kady, M., *Indian J. Chem.*, 12, 51 (1974); C.A., 81, 105346 (1974).
- 199- Wany, Wenjian; Lin, Guiliu, Beijing, *Doxue Xuebao Ziran Kexuebau*, 4, 120 (1987).
- 200- Ivanov, I.; Manolov, I.; Alexandrova, L., *Arch. Pharm. (Wein Hime, Cer.)* 323 (8), 521 (1990); C.A., 113, 1911005 (1990).
- 201- Kirpichenok, M.A.; Melnikova, L.M.; Denisov, L.K.; Grandberg, I.I. *Khim. Gerostikle Soedin* (9), 1169-75 (1988) (Eng).
- 202- Kirpichenok, M.A.; Melnikova, L.M.; Yufit, D.S.; Struchkov, Yu. T.; Grandberg, I.I.; Denisov, L.K. *Khim. Geterotsikle. Soedin* (9), 1176-84 (1988) (Eng).
- 203- Kirpichenok, M.A.; Yufit, D.S.; Melnikova, L.M.; Struchkov, Tu. T.; Denisov, L.V.; Grandberg, I.I. *Khim. Geterotsikle. Soedin* (8), 1022-7 (1990) (Eng).

- 204- An, Zhong. Wei; Gatellani, Marta; Chinsoli, Gian Paolo; *J. Organomet. Chem.*, 371 (3), C₅₁-C₅₂ (1989) (Eng).
- 205- El-Nagdy, S.; Soliman, A. Y.; Bakeer, H.M.; Youssef, A.M.; *Chem. Soc. Pak.*, 12 (3), 240-4 (1990) (Eng).
- 206- Soliman, A. Y.; El-Käfrawy, A.F.; Mohamed, F.K.; Bakeer, H.M.; Abdel-Gawad, M.A. *Indian J. Chem. Sect. B*, 30 B (5), 477-81 (1991) (Eng).
- 207- Block, M., and Kostanecki, St. V., *Ber.* 33, 471 (1900).
- 208- Geissmann, T.A.J., *Amer. Chem. Soc.*, 71, 1498 (1949).
- 209- Witting, G., *Ber.*, 57, 88 (1924); *Mozingo Org. Synthesis*, 21, 42 (1941).
- 210- Heywang, R. and Kostanecki, St. V., *Ber.*, 35, 2885, 2887 (1902).
- 211- Schmutz J.; Hirt R.; Kunzle F.; Eichenberger E.; and Lauener H. *Helv. Chim. Acta*, 36, 620-6 (1953).
- 212- Wander, A.D.; A.G., *Brit.* 728, 767, Apr. 27, (1955); *C.A.*, 50, 7876 (1956).
- 213- Pierre Troncke, Jacques Couquelet, and Pierre Jolland, *Ann. Pharm. France*, 23, 573 (1955); *C.A.*, 64, 12632 (1966).
- 214- Mentzer, C. and Meunier, P., *Bull. Soc. Chim. France*, (5), 11, 302 (1944); *C.A.* 40, 1832 (1946).
- 215- Emilewicz, T., Kostanecki, St. V. and Tambor, J., *Ber.*, 32, 2448 (1899).
- 216- Kostanecki, St. V. and Webel, Bre., 1454 (1901).
- 217- Kostanecki, St. V. and Sleuermann, J., *Ber.*, 34, 109 (1901).
- 218- Gzajkowski, K.; Kostanecki, St. V. and Tambor, J., *Ber.*, 33, 1988 (1900).
- 219- Cullinane, N.M.; Alger, J. and Ryan, H., *Sci. Proc. Roy. Dublin Soc.*, (N.S) 19, 77 (1928); *C.A.* 23, 4472 (1929).
- 220- Kostanecki, St. V.; Rozycki, A., and Tambor, J., *Ber.*, 33, 3410 (1900).
- 221- Diller and Kostanecki, St. V., *Ber.*, 34, 1449 (1901).
- 222- Rani, B.S. Uma; Darbarwar, Malleshwar., *J. Indian Chem. Soc.*, 64 (9), 555 (1987); *C.A.*, 92717 (1988).
- 223- Montanari, Paola; Dare Paolo; Valenti, Piero, *J. Heterocyclic. Chem.*, 25 (4), 1277 (1988); *C.A.*, 110, 75242 (1989).
- 224- Ahmed Zaki and Raymond C. Azzam, *J. Chem. Soc.*, 434 (1943).

- 225- Helbron, I.M.; Hey, D.H. and Lowe, A., *J. Chem. Soc.*, 1311 (1934).
- 226- Otoole, M.T., and Wheeler, S.T., *J. Chem. Soc.*, 4411 (1956).
- 227- Mahal, H.S. and Venkataraman. K., *J. Chem. Soc.*, 1767 (1934).
- 228- Virkar, V. and Wheeler. S.T., *Chem. Soc.*, 1679 (1939).
- 229- Krzyosztow, Kostka. *Roznika Chem.*, 40 (11-12) (1966); *C.A.*, 67, 2969 (1967).
- 230- Sami, S.M.; Sayed, A.A. and Ibrahim, S.S, *Egypt. J. Chem.*, 23 (5), 337-351 (1980).
- 231- Soni, R.R.; Trivedi, K.N., *Indian J. Chem., Sect. B*, 27 B (9), 811; *C.A.*, 111, 23345 (1989).
- 232- Teo, Chim Chim; Kon, O. Lian; Sin, Keny Yeow, *J. Chem. Res., Synop.* (1), 4 (1990); *C.A.*, 113, 40398 (1990).
- 233- Hishmat, O.H.; Abd-El-Rahman, A.H; El-Diwani, H.I., Abu-Bakr, Sh. M., *Rev. Roum. Chim.*, 33 (7) 741 (1988); *C.A.*, 111, 97039 (1989).
- 234- Jain, A.C.; Tyagi, O.D.; Saksena, Rene, *Indian J. Chem., Sec. B*, 28 B (8), 678 (1989); *C.A.*, 112, 158000 (1990).
- 235- Shi, Chuntong; Wang, Shenfn; *Zhongguo Haigang Yaown*, 9 (3), 10 (1990); *C.A.*, 115, 92016 (1991).
- 236- Bloch, M. and Kostanecki, St. V., *Ber.*, 33, 1998 (1900).
- 237- Virker, V. and Wheeler, T.S., *Chem., Soc.*, 1681 (1939).
- 238- Kostanecki, St. V. and Tambor, *Ber.*, 33, 330 (1900).
- 239- Baker, W., *J. Chem. Soc.*, 1381 (1933).
- 240- Sastri and Seshadri, *Proc. Indian Acad. Sci.*, 23 A, 134 (1946); 24 A, 243 (1946).
- 241- John Koo, *J. Org. Chem.*, 26, 2440 (1961).
- 242- Horii, Z., *J. Pharm. Soc. Japan.*, 60, 81 (1940); *C.A.*, 34., 3270 (1940).
- 243- Horii, Z., *J. Pharm. Soc. Japan*, 60, 248 (1940); *C.A.* 34, 6277 (1940).
- 244- Virkar, V. and Shah, J. Univ., Bombay, 11, Pt 3, 144 (1942); *C.A.*, 37, 2374 (1943).
- 245- Patrick, F. Devitt; Anita Timoney and Michael, A. Vickars, *J. Org. Chem.*, 26, 4941 (1961).

- 246- Reddy, Ramakrishna; Krupadanam, G.L. David; Srimannarayana, J. *Indian Chem. Sec., B*, 26 B (10), 974 (1987); C.A. 109, 110208 (1988).
- 247- Reddy, M. Saryanarayna; Reddy, Ch. Ramakrishna; Krupadanam, G.L. David; Srimannarayana, G., *Indian J. Chem. Sect. B*, 28 B (12), 1057 (1989); C.A., 112, 198055 (1990).
- 248- Mazumdar, A.K.D.; Sarbagya, D.P.; Rangachari, K.; Banerji, K.D.J. *Indian Chem. Soc.*, 67 (3), 255 (1990); C.A., 113, 152202 (1990).
- 249- Markrandi, J.K.; Kumari, Vandna, *Synth. Commun.*, 19 (11-12), 1919 (1989); C.A., 112, 178566 (1990).
- 250- Lee, Kee, Jung; Kim, Seongkon; Park, Hokoon. *Bull Korean Chem. Soc.*, 12 (2), 120 (1991); C.A., 114, 247082 (1991).
- 251- Mazumdar, A.K.D.; Karmakor, P.K.; Tiwari, S.K; Banerjee, K.R.; Banerji, K.D.J. *Indian Chem. Soc.*, 67 (10), 845 (1990), C.A., 115, 29060 (1991).
- 252- Cummings, Richard T.; Dizio, James P.; Krafft, Grant A.; *Tetrahedron, Lett.*, 29 (1), 69 (1988); C.A., 109, 149292 (1989).
- 253- Mallik, Uttam K.; Saha, Murari M.; Mallik, Asok K.J. *Indian Chem., Soc.*, 67 (6), 478 (1990); C.A., 114, 101633 (1991).
- 254- Ruhemann, S., *Ber.*, 46, 2188 (1913).
- 255- Gottesmann, E., *Ber.*, 66, 285 (1933).
- 256- Ruhemann, S., *Ber.*, 53, 285 (1920).
- 257- Ruhemann, S. and Stapleton, H. E., *J. Chem. Soc.*, 77, 1179 (1900).
- 258- Watson, A.R., *J. Chem. Soc.*, 303 (1916).
- 259- Fitzmaurice, Colin; Cairns, Hugh, Hazard, Rochard; King, John, *Brit*, 1,262, 078 (Cl. CO7 7D), 02 Feb. (1972), *Apple*. 24, 857-68, 25 May (1968); C.A., 76, 113070 (1972).
- 260- Le Corre, Maurice, *Ann. Chim. (Paris)*, 143 (3), 193 (1968); C.A., 70, 3739 (1969).
- 261- Maurice Le Corre and Emile Levas, *Compt., Rend.* 258 (6), 1833 (1964); C.A., 60, 10637 (1964).
- 262- Kalinin, V.N.; Shostakovskii, M.V.; Ponomarev, A.B., *Tetrahedron Lett.* 31 (28), 4073 (1990); C.A., 113, 211773 (1990).

- 263- Duhkhaharan Chakravarte and Bhowani C. Banerjee, *J. Indian Chem. Soc.*, 13, 619 (1936).
- 264- Chakravarti, D., *J. Indian Chem. Soc.*, 9, 25, 31, 390 (1932).
- 265- Simonis, H. and Alfred Lehmann, *C.B. Ber.*, 47, 697 (1914).
- 266- Chakravarti, D. and Ghosh, B., *J. Indian Chem. Soc.*, 12, 622 (1935).
- 267- Chakravarti, D. and Bagchi, J., *J. Indian Chem. Soc.*, 13, 649 (1936).
- 268- Flynn, D.G. and Robertson, A., *J. Chem. Soc.*, 215 (1936).
- 269- Werder, F.V.; Moll, T. and Jung, F.; *Z. Physiol. Chem.*, 257, 129 (1938); *C.A.*, 33, 3378 (1939).
- 270- Ahmed, S.Z., and Desai, R.D., *Proc. Indian Acad. Sci.*, 6A, 6 (1937); *C.A.*, 32, 559 (1938).
- 271- Simonis, H.S., and Elias, A., *Ber.*, 49, 768 (1916).
- 272- Charles Mentzer, Darius Molho, and Paul Vercier, *Compta. Rend.* 232, 1488 (1951); *C.A.*, 46, 4003 (1952).
- 273- Mazzei, M.; Balbi, A.; Rona, G.; Di Braccio, M.; Leoncini, G.; Buzzi, E.; Maresca, M.; *Eur. J. Med. Chem.*, 23 (3), 237 (1988); *C.A.*, 110, 75246 (1989).
- 274- Mazzei, M.; Sttofattori, E.; Di Braccio, M.; Balabi, A.; Leoncimi, G.; Buzzi, E.; Maresca, M., *Eur. J. Med. Chem.*, 25 (7), 617 (1990); *C.A.*, 114, 101630 (1991).
- 275- Frei, H, and Schmid, H., *Ann.*, 603, 169 (1957).
- 276- Mentzer, Ch.; Molho, D. and Vercier, P., *Bull. Soc. Chim. Franc.*, 91 (1952); *C.A.*, 47, 4336 (1953).
- 277- Zhang, Mingzhe; Yang, Jie; Chen, Zhanhe, *Beijing Daxue Xuebao, Ziran Kexue Ban*, 26 (4) 435 (1990); *C.A.*, 114, 185201 (1991).
- 278- Becket, G. J.P. and Ellis, G. P., *Tetrahedron Letters*, 9, 719-720 (1976).
- 279- Gurav, V.M. and Hagwani, U.K., *J. Indian Chem. Soc.*, 65 (3), 325-326 (1979).
- 280- Sugasawa, S., *J. Chem. Soc.*, 1483 (1934).
- 281- Menon, B., K., and Venkataraman, K., *J. Chem. Soc.*, 2519 (1931).
- 282- Cheema, U.S. and Venkataraman, K., *J. Chem. Soc.*, 918 (1932).
- 283- Simonis, H. S., *Z. Angew Chem.* 39, 1461 (1926); *C.A.*, 21, 1120 (1927).
- 284- Chavan, J.J. and Robinson, R.J., *Chem. Soc.*, 368 (1933).

- 285- Kuhn, R. and Law, I., *Ber.*, 77, 196 (1944).
- 286- Bheemasankara Rao, Ch.; Krishna, Murty, V.; Padanabha, V. T. and Venkateswarla, V., *Rec Trav. Chem.*, 83 (1910), 1122 (1964); *C.A.*, 62, 1624 (1965).
- 287- Thanawalla, B. C.; Seshadri, S., and Trivedi, L.P., *J. Indian Chem. Soc.*, 36, 674 (1959).
- 288- Mahal, H.S. and Venkataraman, K., *J. Chem. Soc.*, 569 (1936).
- 289- Gurav, V.M.; Ingle, D.B., *J. Indian Chem. Soc.*, 65 (11), 796 (1988); *C.A.*, 111, 23346 (1989).
- 290- Ankiwala, M. D.; Naik, H.B. *J. Indian Chem. Soc.*, 66 (7), 482 (1989); *C.A.*, 112, 76886 (1990).
- 291- Lowenbein, A., *Ber.*, 57, 1515 (1924).
- 292- Hattori, S., *Acta photochim.*, 6, 131 (1932); *C.A.*, 26, 4816 (1932).
- 293- Arnold, H. and Collins, J. *Am. Chem. Soc.*, 61, 1407 (1939).
- 294- Gouri, S.C. and Srimannarayana, M.B.V. *Synthesis*, 4, 310-311 (1983).
- 295- Hutchins, W. A. and Wheeler, T.S., *J. Chem. Soc.*, 91 (1939).
- 296- Alger, J. and Flynn, J.P. *Proc. Roy. Irish Acad. B.* 42, 1 (1934); *C.A.* 29, 161 (1953).
- 297- Oyamado, T., *Bull. Chem. Soc. Japan*, 10, 182 (1935); *C.A.*, 29, 2511 (1935).
- 298- Murakami, M. and Irie, T., *Proc. Imp. Acad (Tokyo)* 11, 229 (1935); *C.A.*, 30, 5987 (1936).
- 299- Reichel, L. and Studel, J. *Ann.* 553, 83 (1942).
- 300- G. BM-Bettolo, *Gazz. Chim. Ital.*, 72, 201 (1942), *C.A.*, 37, 4397 (1943).
- 301- Chopra, Renu; Krishnamurti, M., *J. Indian Chem. Soc.*, 64 (7), 444 (1987); *C.A.*, 108, 221553 (1988).
- 302- Chopra, Renu; Krishnamurti, M., *Indian J. Chem. Soc.*, 28 B (6), 507 (1989), *C.A.*, 112, 76882 (1990).
- 303- Takahashi, Hiroshi, Li, Sahaoshun, Harigaya, Yoshihiro; Onda, Masayuki *Chem. Pharm. Bull.* 36 (5), 1877 (1988); *C.A.*, 110, 38840 (1989).

- 304- Sun, Jinqin; Geng, Quan; Cai, Mengshen. *Huaxue Tongbao* (2), 38 (1990); C.A.; 113, 115009 (1990).
- 305- Donnelly, John A., Higginbotham, Clement L., *Tetrahedron Lett.*, 46 (20), 7219 (1990); C.A., 114, 81503 (1991).
- 306- Donnelly, John A.; Higginbotham, Clement L. *Monatsh. Chem.*, 122 (1-2), 83 (1991); C.A., 114, 228672 (1991).
- 307- Kaminsky, Daniel, U.S. 3, 912, 760 (Cl. 260-340. 5; C07D), 14 Oct. (1972), *Appl.* 352, 133, 18 Apr. (1973); C.A., 84, 30891 (1976).
- 308- Hermenegildo, G.; Roberto, M.U., and Angel, M.M., *Tetrahedron Letters*, 22 (18), 1749-50 (1981).
- 309- Hermenegildo, G.; Roberto, M.U. and Angel, M.M. *Leibigs Ann. Chem.*, 3, 589-98 (1985).
- 310- Shaw, Gordon; *J. Chem. Soc., Commun.*, (22), 1735 (1987); C.A., 108, 186502 (1988).
- 311- Lowe, Werner; Goebel, Sigridi, Mueller-Meuke, Glaudia; C.A., 110, 75248 (1989).
- 312- Cox, Brain, Waigh, Roger D. *Synthesis* (9), 709 (1989); C.A., 112, 158001 (1990).
- 313- Pflieger, Dominique; Muenkstrum, Bernard; *Tetrahedron Lett.*, 31 (16), 2299 (1990); C.A., 113, 78088 (1990).
- 314- Yamaguchi, Seiji, Mutoh, Mossa; Shimakura, Masaki; Tsuzuki, Kunihiro; Kowase Yoshiyuki, *J. Heterocycl. Chem.*, 28 (1), 119 (1991); C.A., 114, 206948 (1991).
- 315- Yamaguchi, Seiji; Saitoh, Miynki; Kawase, Yoshiyuki, *J. Heterocyclic Chem.*, 28 (1), 125 (1991); C.A., 114, 206949 (1991).
- 316- Wittig, G., *Ber.*, 57, 88 (1924); Mazingo, R., *Org. Synthesis*, 21, 42 (1941).
- 317- Reddy, K. Chandraprasash; Mallaiiah, B. Veera; and Srimannarayana, G., *Curr. Sci.*, 49 (1), 18 (1980).
- 318- Rao, C. Prasad; Srimannarayana., G, *Synth. Commun.*, 17 (12), 1507 (1987); C.A. 108, 131519 (1988).
- 319- Chawla, H. Mohindra; Sharma, S. Kumar, *Synth. Commun.*, 20 (2), 301 (1990); C.A., 113, 23618 (1990).
- 320- John, W.; Gunther, P.; and Schmeil M., *Ber.*, 71, 2637 (1938).

- 321- Prillinger, F.; and Schmid, H., *Monatsh Chem.*, 72, 427 (1939); C.A., 34, 1017 (1940).
- 322- Wessely, F.V.; and Prillenger, F. *Monatsh Chem.*, 72, 197 (1939); C.A. 33, 2521 (1939).
- 323- Muller, E.; and Wiesemann, W., *Justus Liebigs Ann, Chem.*, 537, 86 (1938).
- 324- Pfeiffer, P.; and Grimmer, J., *Ber.*, 50, 911 (1917).
- 325- Pfeiffer, P.; and Emmer, H.J., *Ber.*, 53, 945 (1920).
- 326- Mozingo, R.; and Adkins, H. *J. Am. Chem. Soc.*, 60, 669, (1938).
- 327- Karrer, P.; Yen, Y.; and Reichstein, I., *Helv. Chim. Acta*, 13, 1308 (1930).
- 328- Engelkemeir, D.W.; Gessman, T.A.; Growell, W.R.; and Fries, S.L., *J. Am. Chem. Soc.*, 69, 155 (1947).
- 329- Gomis, M.; Kirkiacharian, B.S.; Likforman, J.; Mahuteau, J. *Bull, Soc. Chim. Fr.* (3), 585 (1988); C.A., 111, 97041 (1989).
- 330- Heilbron, I.M.; Branes, H.; and Morton, R. A., *J. Chem. Soc.*, 123, 2566 (1923).
- 331- Limaye, D.B.; and Kelkar, G.R. *Rasaynam*, 1, 24 (1936); C.A., 31, 2213 (1937).
- 332- Zaki, A.; A.; and Azzam, R.C., *J. Chem. Soc.*, 434 (1943).
- 333- Aziz, G., *J. Org. Chem.*, 27, 2954 (1962).
- 334- Mahmoud, M.R.; Soliman, A.Y.; Bakeer, H. M, J.P, S and Silicon, 53 (1-4), 135 (1990); C.A., 114, 6228 (1991).
- 335- Salem, Mounir A.I.; Hamed, A.A; El-Shekeil, A.G.; Babaqui, A.S.; Madkour, Hassan. M.F.J. *Chem. Soc. Pak.*, 12 (3), 189 (1990); C.A., 114, 185202 (1991).
- 336- Ahmed, S.Z.; and Desai, R.D. *Proc. Indian Acad.*, 6A, 6 (1937); C.A. 32, 559 (1938).
- 337- Schmutz, J.; Hirt, R.; and Lauener, H., *Helv. Chem. Acta*, 35, 1168 (1952).
- 338- Johnston, R.G.; and Kidd, D., *J. Chem. Soc.*, 4730 (1964).
- 339- Soliman, Ahmed Youssef; Mahmoud, Mahmoud Refai; Bakeer, Hadeer, Mohamed, *Acta Chim. Hung.* 128 (3), 345 (1991); C.A., 115, 135879 (1991).
- 340- Witting, G., and Bangert, F., *Ber.*, 58, 2627, 2636 (1925).
- 341- Szabo, V., Borliely, J.; Theisz, E., and Janzso, C., *Tetrahedron Letters*, 23 (50), 5347-5350 (1982).

- 342- Szabo, V.; Borda, J.; and Theisz, E., *Acta Chem. Acad. Sci., Hung.*, 103 (3), 271-9 (1980).
- 343- Schonberg, A.; and Sidkay, M.M., *J. Am. Chem. Soc.*, 75, 5128 (1953).
- 344- Schonberg, A.; Fateen, A.; and Sammour, A., *J. Am. Chem. Soc.*, 78, 4689 (1956).
- 345- Ghosh, Chandra Kanta; Pal, Chandana; Maiti, Jharna; Sarkar, Manjusha, *J. Chem. Soc., Perkin Trans. 1* (6), 1489 (1988); *C.A.*, 110, 154098 (1989).
- 346- Witting, G.; and Blumenthal, H., *Ber.*, 60, 1085 (1927).
- 347- Mohamed, A.F.; Elkaschef, Michael H., Nosseir; and Awatef Abdel-Kader, *J. Chem. Soc.*, 440 (1963).
- 348- Sammour, A.E.A., *J. Org. Chem.*, 32, 1222 (1958).
- 349- Sammour, A.E.A., and Marei, A., *J. Chem. U.A.R.* 11 (1), 1 (1968).
- 350- David Son, Deborah N.; Kaye. Perry T., *Synth. Commun.*, 20 (5) 727 (1990); *C.A.*, 113, 97398 (1990).
- 351- Litkei, G., Patonay, T.; Patonay-Peli, Erzsebet; Khilya V.P., *Pharmazie*, 44 (11), 791 (1989); *C.A.*, 113, 23615 (1990).
- 352- Ghosh, Chandra Kanta; Biswas, Subhabrata; Bhattacharyya, Atamu; Sasmal, Nirmalrendu, *J. Chem. Res. Synop.*, (4), 117 (1990); *C.A.*, 113, 58855 (1990).
- 353- Heilbron, I.M.; and Zaki, A., *J. Chem. Soc.*, 1902 (1926).
- 354- Watson, E.R.; Sen, K.B.; and Medhi, V.R., *J. Chem. Soc.*, 1477 (1915).
- 355- Ziegler, K.; Fries, F.A.; and Salzer, F., *Justus Liebigs Ann., Chem.*, 448, 249 (1926).
- 356- Heilbron, I.M.; Hey, D.H.; and Lowe, A., *J. Chem. Soc.*, 1380 (1936).
- 357- Heilbron, I.M.; Heslop, R.N.; and Irving, F.J. *Chem., Soc.*, 430 (1933).
- 358- Holmberg, G.A.; and Sjöholm R., *Acta Chem. Scand.*, 27, (6), 2020 (1973); *C.A.* 80, 36953 (1974).
- 359- Offe, H.A., *Ber.*, 71, 1837 (1938).
- 360- Paul, F. Viley, *J. Am. Chem. Soc.*, 74, 4326 (1952).
- 361- Zagorevskii, V.A., Tsvetkova, I.D., and Orlova, E.K., *Khim. Geterotsikl. Soedin*, (5), 786 (1967); *C.A.*, 69., 27 96 (1968).
- 362- Buggy, T. and Ellis, G.P., *J. Chem. Research* (5), 159 (1980).

- 363- Mustafa, A. and Ibrahim, M., *J. Org. Chem.*, 21, 849 (1956).
- 364- Schonberg, A.; Mustafa, A., and Aziz, G., *J. Am. Chem. Soc.*, 76, 4576 (1954).
- 365- Hanifin, J.W.; and Cohen, E., *Tetrahedron Lett.*, 5421 (1966).
- 366- Hanifin, J.W., and Cohen, E., *J. Am. Chem. Soc.*, 91, 4494 (1969).
- 367- Ghash, C.K.; and Khan, S., *Indian J. Chem., Sect. B*, 18 B (2), 128 (1979).
- 368- Paolo Da Re.; Lucia Verlicchi, and Ivo Setnikar, *J. Org. Chem.*, 25, 1097 (1960).
- 369- Zhu, Huiqing; J., Qing; Xiao, Wenbin., *Zhonggno Yiyao Gongye Zazhi*, 21 (9), 402 (1990); *C.A.*, 114, 185199 (1991).
- 370- Shah, M.V., and Sethna, S.J. *Indian Soc.*, 39, 507 (1962).
- 371- Paolo, Da Re., and Verlicchi, L., *Ann. Chem. (Rome)* 46, 904 (1956), *C.A.*, 115, 71333 (1991).
- 372- Giles, Paul R., Marson, Charles M., *Tetrahedron*, 47 (7), 1303 (1991); *C.A.*, 115, 71333 (1991).
- 373- Toda, T., Takunaga, T., Ouchida, T.; Shiroga, K., Nakamoto, T.; Cheother, Tokyo, 6, 91 (1958); *C.A.*, 52, 203888 (1958).
- 374- Chakraborty, D.P.; Dasgupta, A.; Bose, P.K.; *Ann. Biochem. Exp. Med.* 17, 59 (1957); *C.A.*, 52, 1352 (1958).
- 375- Troponwerke, Dlinkog Co., *Belgium Pat.*, 843 (Nov. 3, 1976).
- 376- Abdel-Mottaleb, A.S.M., El-Sayed, A.B.; Abo-Aly, M.M., El-Kady, Y.M., *J. Photochemistry and Photobiology, A; Chem.*, 46, 379 (1989).
- 377- Fink, W.D. and Koehler, R.W., *Anal. Chem.*, 42, 990 (1970).
- 378- Shank, V.C., Dienes, A.; Trozzolo, M.A. and Myer, *Appl. Phys. Lett.*, 16, 405 (1970).
- 379- Dienes, A., Shank, V.C. and Trozzolo, M.A., *Appl. Phys. Lett.*, 17, 189 (1970).
- 380- Drexhage, H.K., *Structure and Properties of Laser Dyes*, in F.P Schaefer (ed.) *Laser Dye*, Springer Verlag, Berlin, 144 (1973).
- 381- Shafi, A.A.A., and Mottaleb, M.S.A.A., 2nd International Conference " Solar Energy Storage and Applied Photochemistry " Cairo, Egypt, 6-11-January (1993).
- 382- Laskowski, S.C, Clinton. R.D., *J. Am. Chem. Soc.*, 72, 3989 (1950).
- 383- Sethns and Shah, *Chem. Revs.*, 36, 1 (1945).

- 384- Shridhar, D.R.; Reddy Sastry, C.V.; Yaidya, N.K.; Moorthy, S.R.; Reddi, G.S.; Thapar, G.S.; *Ind. J. Chem.*, 16 B, 704-8 (1978).
- 385- Ukita, T.; Mizumo, D.; Tamura, T.; Yamakawa, T. Nojima, S.; *J. Pharm. Soc. Japan*, 71, 2334 (1951).
- 386- Soliman, A.Y., El-Assy, N.B., El-Shahed, F., El-Kady, M. and El-Deen, I.M., *Ind. J. Chem.*, 29 B, 236 (1990).
- 387- Sammour, A.; Selim M.I.B.; El-Kady, M.; *J. Chem. U.A.R.*; 14 (3), 261 (1971); *C.A.*; 77, 114185 (1972).
- 388- Husain, Imtiaz, M., Gupta, Kiran Bala, Srivastava, R.C. *Indian Chem. Soc.*, 59, 1193 (1982).
- 389- Salaja, G.; Rajue, K.; Mohana, Raju, M. Subramanyom *Indian J. Chem.*, 24, 206 (1985).
- 390- Saleh R.M, Soliman. A.Y., El-Nagdy. S., Bakeer., Moustafa M., *Phosphorous Sulfur and Sialicon J.*, 48, 285 (1990).
- 391- El-Kady M.Y., El-Hashash M.A, Saleh R.M, El-Gendy A.M, *Pak. J. Scient. and Res.*, 27, 298 (1984).
- 392- Essawy, S.A, El-Sawy A.A, Amine M.S. and Wasfy A.A.F. *Ind. J. Chem.* 30B, 1028-1032 (1991).
- 393- Essawy S.A., El-Kady M.Y., Metwally R.M. and El-Shenawy A.I., *Ind. J. Chem.* 13 B, 39-43 (1992).
- 394- El-Kady, M., *Pakistan J. Sci.* 31, 163 (1979).
- 395- Abdalla, M.; El-Kady, M. and El-Faragy, A.F., *Egypt. J. Chem.*, 20, 245 (1977).
- 396- El-Gerby Younes, M.; El-Kady, M.; Essawy, A.I. and Mohamed, A.Y., *Indian J. Chem.*, 20, 747 (1981).
- 397- El-Kady, M., El-Hashash, M.A., Sayed, M.A., and El-Sherif, M., *Indian J. Chem.*, 20, 491 (1981).
- 398- El-Kady, M., El-Deek, M.K., Saleh, R.M., and El-Dein, G., *Revue Roum. de Chime*, 28, 915 (1983).
- 399- El-Hashash, M.A.; Kaddah, M.; El-Kady, M. and Ammer M.M. *Pakistan J. Sci. Ind. Res.*, 25, 104 (1982).

- 400- El-Kady, Mohamed; Sayed, Galal, H.; Mansour Adel, El-Sherif, Mohamed, *Polish J. Chem.*, 56, 1393 (1982).
- 401- El-Farargy, A.F.; Soliman, A.Y., El-Mobayed, M. and El-Esser, S.; *Revue Rom. de Chim.*, 32, 435 (1987).
- 402- Sayed, M.A., Soliman, A.Y., El-Gendy, A.M. and Mostafa, M., *Oriental J. Chem.*, 3, 174 (1987).
- 403- El-Kady, M., Afify A.A., El-Hashash M.A. and E. Kassab, *Polish J. Chem.*, 56, 1387 (1982).
- 404- Soliman, A.Y., El-Nagdy S., Bakeer H.M., Moustafa M.M, Saleh R.M., *Indian J. Chem.*, 29 B, 239 (1990).
- 405- El-Kady, M.; Sayed G.H, Saleh R.M.; Mosa. Hoda, M.J. *Chem. Soc. Pak.*, 8 (2), 91 (1986) (Eng).
- 406- El-Kady, M., Sayed G.H, Saleh R.M. Mosa, Hoda, M. *Egypt J. Chem.* (1985), 28 (1), 19 (1986) (Eng).
- 407- El-Kady, M., Sayed G.H, El-Gendy A.M., El-Sherif M., *Egypt. J. Chem.* (1985), 28 (1) (1986) (Eng).
- 408- Lami, V.; Prino, G. and Rossano, M.A., *Atti. Acad. Med. Lombrada*, 18 (3), 651 (1963); *C.A.* 62, 6992 (1965).
- 409- Bradel-Gay, Y.; Guiroy, P. and Bourillet. F., *Therapie*, 17, (6), 1211 (1962); *C.A.*, 62, 3296 (1965).
- 410- Jerome, F.F., *Phyton (Buenas Aires)*, 21 (2), 133 (1964); *C. A.*, 62, 13718 (1965).
- 411- Highby, J. *Amera. Pharm. Assoc.*, 32, 74 (1943); " *Heterocyclic Compounds* " Elderfield, Vol. 2. Jone Wiley and Sons, N.Y., PP. 276 (1943).
- 412- Nakamura, H.; Ota T. and Fukuchi, G., *J. Pharm. Soc. Japan*, 56, 68 (1936); *C.A.* 32, 5833 (1938).
- 413- Umio, Suminori; Ueda, Ikuo; Sato, Yoshinari; Matsuo, Masaki; Nakaguti, Osamu; Kobayashi, Masakazu *Ger. Offen*, 2, 331, 138 (CL. CO7D, A61K), 10 Jan. (1974), *Japan Appl.* 7262, 626, 21 Jun. (1972); *C.A.*, 80, 82660 (1974).
- 414- Pier Giorgio, F. (Ciba-Geigy-A.G.) *Ger. Offen.*, 2, 737, 407 (Cl. CO7D 311/04), 02 Mar. (1978) *Lux. Appl.* 75, 688, 31 Aug. (1976); 78; *C.A.*, 89, 6221 G (1978).

- 415- Gerhard, H.; Brigitte K.; Cordelia, Z. and Hans, R. *Liebigs Ann. Chem.*, 12, 1883-1904 (1981); *C.A.*, 97 (1982).
- 416- Klutchko, Sylvester; Kaminsky, Daniel; Von Strandtmann, Maximilian (Warner-Lambert Co.) *U.S.* 4, 098, 098, 779 (Cl. 260-345; CO7D 311-22), 04 Jul. (1978), *Appl.* 352, 149, 18 Apr. (1978); 6PP; *C.A.*, Vol. (1979).
- 417- Soliman, A.Y., Mhamoud M.R. and Bakeer H.M., *Acta Chim. Hung.* 128 (3), 345 (1991); *C.A.*, 115, 135879 (1991).
- 418- Soliman, A.Y., Mahmoud M.R. and Hassan M.F. Madkour, *J. Serbian Chem. Soc.* 55, 11 (1990).
- 419- El-Kady, M., El-Deek, M.K, R.M. Saleh and El-Dein, G.M., *Revue Roumaine de Chimie*, 28, 9 -10, 912-920 (1983).
- 420- Balbi, A., Mazzei, M, Ermili. A., Roma, G. and Di Braccio, M., *Farmaco. Ed. Sci.*, 41 (7) 548-57 (1986); *C.A.* 106,,102041 (1987).
- 421- Mahmoud, M.R., Soliman A.Y. and Bakeer H.M., *Phosphorus, Sulfur and Silicon*, 53, 135-143 (1990); *C.A.*, 114, 6228 (1991).
- 422- Tamman, G.H; Hamed, A.A.; El-Mobyed, M.; Mohamed A.Y., *Egypt J. Chem.*, 28, 331 (1985).