ARKIVOC Volume 2006 Part (xii): General Papers

1. Anionic activation of the Wittig reaction using a solid-liquid phase transfer: examination of the medium-, temperature-, base- and phase-transfer catalyst effects (06-1873HP)

Younes Moussaoui, Khemais Saïd and Ridha Ben Salem

Full Text: PDF (215K)

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Activation of the Wittig reaction by sodium hydroxide on alumina and phase transfer catalysts promotes the formation of ethylenic compounds in excellent yields.

$$\begin{array}{c} \text{Br}_{+}^{-} \\ (\text{C}_{6}\text{H}_{5})_{3}\text{P--CH}_{2}\text{-R'+ RCHO} \end{array} \xrightarrow{\text{Base/Solvent}} \text{RCH=-CHR'}$$

received Mar 23 2006; accepted May 22 2006; published Jun 26 2006;

2. Dipyridine copper chloride catalyzed coumarin synthesis via Pechmann condensation under conventional heating and microwave irradiation (06-1890JP)

B. Rajitha, V. Naveen Kumar, P. Someshwar, J. Venu Madhav, P. Narsimha Reddy and Y. Thirupathi Reddy Full Text: PDF (39K)

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received Apr 8 2006; accepted May 31 2006; published Jun 26 2006;

3. A novel synthetic approach to the thiotetronic ring system, the key intermediate for thiolactomycin analogues (06-1885EP)

Stefanos Kikionis, Kyriakos C. Prousis, Anastasia Detsi and Olga Igglessi-Markopoulou

Full Text: PDF (167K)

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4. Aryl-substituted methylidenecyclopropa[b]naphthalenes: synthesis and attempted silver(I)-mediated dimerization (06-1917DP)

Brian Halton, Gareth M. Dixon and Grant S. Forman

Full Text: PDF (129K)

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$$\begin{array}{c|c} R & \text{i) Ag(I)-CHCI}_3 \\ \hline Ag(I) & \text{CHCI}_3 \\ \hline H & R \\ \hline R & H \\ \hline R & \text{earyl} \end{array}$$

received May 4 2006; accepted Jun 13 2006; published Jun 28 2006;

5. A novel one pot synthesis of 14-aryl-14H-dibenzo[a,j]xanthenes catalyzed by Selectfluor[™] under solvent free conditions (06-1891MP)

P. S. Kumar, B. Sunil Kumar, B. Rajitha, P. Narsimha Reddy, N. Sreenivasulu and Y. Thirupathi Reddy Full Text: PDF (213K)

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received Apr 8 2006; accepted Jun 13 2006; published Jun 28 2006;

6. Facile synthesis of fluorinated 2-aryl-5,7-bisalkyl pyrazolopyrimidines from arylalkynenitriles (06-1919JP)

V. V. V. N. S. Rama Rao, B. P. V. Lingaiah, G. Venkat Reddy, G. Ezikiel, R. Yadla and P. Shanthan Rao

Full Text: PDF (224K)

pp. 51 - 57

received May 8 2006; accepted Jun 13 2006; published Jun 28 2006;

7. Synthesis of some 4-bromo-1-naphthyl chalcones using silica-sulfuric acid reagent under solvent free conditions (06-1889HP)

Ganesamoorthy Thirunarayanan and Ganesan Vanangamudi

Full Text: PDF (220K)

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Br CO CHach
$$g$$
 SiO₂-H₂SO₄ (1-13)

Notice the point free, 80°C (1-13)

Where X= H, m-NH₂, p-NH₂, m-Cl, p-Cl, p-N(CH₃)₂ p-OH, p-OCH₃, p-CH₃, a-NO₂, m-NO₂, p-NO₂

received Apr 7 2006; accepted Jun 13 2006; published Jun 28 2006;

8. Regioisomeric α -hydroxy chlorohydrins from the reaction of mucochloric acid and guanosine (06-1904EP)

Karel D. Klika, Jukka Mäki, Rainer Sjöholm and Leif Kronberg

Full Text: PDF (190K)

pp. 65 - 74

received Apr 20 2006; accepted Jun 20 2006; published Jun 29 2006;

9. A mild, expedient, solventless synthesis of bis(indolyl)alkanes using silica sulfuric acid as a reusable catalyst (06-1902KP)

D. M. Pore, Uday V. Desai, T. S. Thopate and P. P. Wadgaonkar

Full Text: PDF (200K)

pp. 75 - 80

received Apr 20 2006; accepted Jun 22 2006; published Jun 29 2006;

10. Solvent and substituent effect on electronic spectra of \hat{A} $N\hat{A}$ -(4-substituted phenyl)-2,3-diphenylpropanamides (06-1874FP)

Nataša Valentić, Dušan Mijin, Gordana Ušćumlić, Aleksandar Marinković and Slobodan Petrović Full Text: PDF (250K)

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received Mar 23 2006; accepted Jun 13 2006; published Jun 29 2006;

11. Synthesis of novel chiral θ -amino alcohols and diamino alcohols from products of Ugi 3-component reaction (06-1937EP)

Fu-Lin Chen, Hon-Kai Fu, Chen-Chi Liu and Kuangsen Sung

Full Text: PDF (187K)

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R1: H, CH3; R2: (C2H5)CH, 9-anthracenyl

received May 30 2006; accepted Jun 26 2006; published Jul 10 2006;

12. Synthesis and biological evaluation of new 5-methyl-*N*-(3-oxo-1-thia-4-azaspiro[4.5]-dec-4-yl)-3-phenyl-1*H*-indole-2-carboxamide derivatives (06-1893AP)

Özlen Güzel,Nalan Terzioğlu, Gültaze Çapan and Aydın Salman

Full Text: PDF (315K)

pp. 98 - 110

$$CH_{3} \xrightarrow{C_{6}H_{5}} H \xrightarrow{N-N} S \\ R = CH_{3}, C_{3}H_{7}, C_{6}H_{5} \\ R_{1} = H, CH_{3}$$

received Apr 10 2006; accepted Jul 10 2006; published Aug 2 2006;

13. BF₃.OEt₂-promoted synthesis of acridines via *N*-aryl nitrenium-BF₃ ions generated by dissociation of 2-oxo azidoarenes in benzene (06-1909AP)

Alessandro Fraleoni-Morgera and Paolo Zanirato

Full Text: PDF (211K)

pp. 111 - 120

$$\begin{array}{c} \text{COR (CN)} & \text{i) 2BF}_3 \text{ OE}_{1_2} \\ \text{N}_3 & \text{In CoR(CN)} \\ \text{N}_3 & \text{In CoR(CN)} \\ \text{N}_4 & \text{In CoR(CN)} \\ \text{N}_5 & \text{In CoR(CN)} \\ \text{N}_7 & \text{Ph} \\ \text{BF}_3 & \text{In CoR(CN)} \\ \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{N}_7 & \text{Ph} \\ \text{BF}_3 & \text{In CoR(CN)} \\ \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{N}_7 & \text{Ph} \\ \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{N}_7 & \text{Ph} \\ \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{N}_7 & \text{In CoR(CN)} \\ \text{N}_8 & \text{In CoR(CN)} & \text{In CoR(CN)} \\ \text{N}_9 & \text{In CoR(CN)} & \text{In CoR(C$$

received Apr 26 2006; accepted Jul 10 2006; published Aug 2 2006;

14. Synthesis and properties of 4-(3-substituted azulen-1-yl)-2,6-diphenylpyridines (06-1882BP)

Alexandru C. Razus, Liviu Birzan, Andreea Corbu, Oana Zaharia and Cristian Enache

Full Text: PDF (222K)

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$$\begin{array}{c} P_{B} \\ P_{B} \\ ClO_{4} \\ P_{B} \end{array} \begin{array}{c} P_{B}Cl_{1} \\ ECII_{1}NO_{1} \\ P_{B} \\ ClO_{4} \\ P_{B} \end{array} \begin{array}{c} P_{B} \\ P_{B} \\ P_{B} \\ P_{B} \\ P_{B} \end{array} \begin{array}{c} P_{B} \\ P_{B}$$

received Apr 3 2006; accepted Jun 28 2006; published Aug 15 2006;

15. Michael addition of thiols to α , β -unsaturated carbonyl compounds under solvent-free conditions

(06-1908MP)

Barahman Movassagh and Pershang Shaygan

Full Text: PDF (199K)

pp. 130 - 137

$$R^{1}SH = R^{2}$$
 R^{3}
 R^{3}

received Apr 26 2006; accepted Aug 3 2006; published Aug 16 2006;

16. Synthesis of some 1-aryl-3,5-disubstituted-pyrazoles by *N*-arylation of 3,5-disubstituted-pyrazoles with 4-fluoro and 2-fluoronitrobenzene under microwave irradiation and classical heating (06-1881AP)

Ibrahim Bouabdallah, Rachid Touzani, Ismail Zidane, Abdelkrim Ramdani and Smaail Radi

Full Text: PDF (224K)

pp. 138 - 144

received Mar 22 2006; accepted Jul 10 2006; published Aug 23 2006;

17. Triphenylphosphite as a good reagent for the diasteroselective synthesis of phosphonate esters (06-1892JP)

Malek Taher Maghsoodlou, Sayyed Mostafa Habibi Khorassani, Mohammad Kazem Rofouei, Sayyed Reza Adhamdoust and Mahmoud Nassiri

Full Text: PDF (285K)

pp. 145 - 151

$$(PhO)_{3}P + RO_{2}C - C \equiv C - CO_{2}R + Z - H \xrightarrow{diethyl \ ether} (PhO)_{2}P \xrightarrow{Z} H \xrightarrow{RO_{2}C} 4 \xrightarrow{CO_{2}R} H \xrightarrow{RO_{2}C} 4 \xrightarrow{RO_{2}C}$$

received Apr 8 2006; accepted Aug 6 2006; published Aug 24 2006;

18. Convenient synthesis of new functionalized cyclopropanes from monoterpenic olefines (06-1911CP)

Hossni Ziyat, My Youssef Ait Itto, Mustapha Ait Ali, Abdelkhalek Riahi, Abdellah Karim and Jean-Claude Daran

Full Text: PDF (201K)

pp. 152 - 160

received Apr 28 2006; accepted Aug 21 2006; published Aug 24 2006;

19. Practical synthesis of some novel unsymmetrical 1,3-dialkyl pyrimidine derivatives at room temperature (06-1915EP)

Ali Khalafi-Nezhad, Abdolkarim Zare, Abolfath Parhami and Mohammad N. Soltani Rad

Full Text: PDF (268K)

pp. 161 - 172

$$R_1 = H, Me, F R, R_2 = Alkyl$$

received May 3 2006; accepted Aug 20 2006; published Sep 14 2006;

20. Synthesis and antituberculosis activity of 2-(aryl/alkylamino)-5-(4-aminophenyl)-1,3,4-thiadiazoles and their Schiff bases (06-1894CP)

Nilufer Solak and Sevim Rollas

Full Text: PDF (227K)

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received Apr 10 2006; accepted Sep 13 2006; published Sep 19 2006;