ARKIVOC Volume 2009

Part (ix): Special Issue '5th Eurasian Conference on Heterocyclic Chemistry'

Facilitator: Yehia A. Ibrahim Scientific Editor: Anthony Waring

1. 5th Eurasian Conference on Heterocyclic Chemistry (5th EAMHC) (EM-1435HT)

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published Apr 27 2008;

2. 2,3,4,5-Tetrahydro-2,4-diimino-1,3,5-triazin-1-ium salts in the reaction of carbodiimides with N-alkylnitrilium salts (EM-3076HP)

Rajab Abu-El-Halawa Full Text: PDF (250K)

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$$R^{1}-C \equiv N^{+}-R^{2} \operatorname{SbCl}_{6}^{-} + 2 R^{-}N = C = N-R^{4}$$

$$R^{1} = \operatorname{Me}, \operatorname{Et}, i\operatorname{Pr}, \operatorname{Bz}, \operatorname{Ph}$$

$$R^{2} = i\operatorname{Pr}, \operatorname{Me}$$

$$R^{3}, R^{4} = i\operatorname{Pr}, t\operatorname{-Bu}, c\operatorname{-hexyl}$$

received Feb 25 2008; accepted Apr 18 2008; published May 12 2008;

3. Stereoselectivity in the synthesis of 2-azetidinones from ketenes and imines via the Staudinger reaction (EM-3079HU)

Jiaxi Xu

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received Feb 29 2008; accepted Apr 20 2008; published May 23 2008;

4. Effect of novel *N*-arylurea- substituted 3-morpholino arecoline derivatives as muscarinic receptor 1 agonists in AlzheimerÂ's dementia models (EM-3074HP)

Y. C. Sunil Kumar, Manish Malviya, J. N. Narendra Sharath Chandra, C. V. Kavitha, N. R. Thimmegowda, M. N. Subhash and K. S. Rangappa

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5. Synthesis and properties of oligo(2,5-thienylene-ethynylene)s (EM-3129HU)

Herbert Meier and Bastian Mühling

Full Text: PDF (755K)

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6. Light-sensitive heterocyclic compounds for information nanotechnologies (EM-3102HP)

Valery A. Barachevsky, Yury P. Strokach, Yury A. Puankov, Olga I. Kobeleva, Tatyana M. Valova, Konstantin S. Levchenko, Vladimir N. Yaroshenko and Michail M. Krayushkin

Full Text: PDF (691K)

pp. 70 - 95

$$R_2$$
 $Z \rightarrow W$
 R_1
 R_1
 R_2
 R_2
 R_3
 R_4
 R_4
 R_4
 R_5
 R_5
 R_2
 R_4
 R_5
 R_4
 R_5
 R_5
 R_6
 R_7
 R_8
 R_8
 R_9
 R_9

received Mar 9 2008; accepted May 24 2008; published Jun 21 2008;

7. The chemistry of thiophene S-oxides¹ and related compounds (EM-3101HU)

Thies Thiemann, David J. Walton, Ana Oliveira Brett, Jesus Iniesta, Frank Marken and Yuan-qiang Li Full Text: PDF (493K)

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8. Intramolecular domino-Knoevenagel-hetero-Diels-Alder reaction with terminal acetylenes (EM-3092HP)

Malihe Javan Khoshkholgh, Saeed Balalaie, Hamid R. Bijanzadeh and J \tilde{A}^{1} rgen H. Gross Full Text: PDF (219K)

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9. From sugars to modified nucleosides (EM-3075HR)

Eva HýrošovÃi,a Lubor Fišera, Michal Medvecký, Hans-Ulrich Reissig, Ahmed Al-Harrasi and Miroslav Koóš

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10. The development of bisphosphonates for therapeutic uses, and bisphosphonate structure-activity consideration (EM-3134HR)

Wafaa M. Abdou and Abeer A. Shaddy

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Hetero
$$=$$
 C \xrightarrow{Y} + $\xrightarrow{\text{(EtO)}_2P}$ $\xrightarrow{\text{I) NaH/DMF}}$ $\begin{bmatrix} O \\ || \\ P(OH)_2 \end{bmatrix}_2$ $\xrightarrow{\text{(EtO)}_2P}$ $\xrightarrow{\text{(EtO)}_2P}$ $\xrightarrow{\text{(EtO)}_2P}$ $\xrightarrow{\text{II) Conc HCI}}$ $\begin{bmatrix} O \\ || \\ P(OH)_2 \end{bmatrix}_2$ $\xrightarrow{\text{(Hetero)}}$

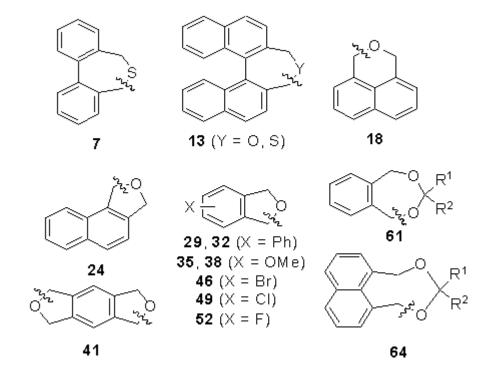
received Mar 21 2008; accepted Jun 15 2008; published Aug 5 2008;

11. Connecting heterocycles *via* a catalyzed lithiation (EM-3282HP)

Francisco Foubelo, Daniel GarcÃa, BenjamÃn Moreno and Miguel Yus

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12. Nitroalkanes as key building blocks for the synthesis of heterocyclic derivatives (EM-3112HR)

Roberto Ballini and Marino Petrini

Full Text: PDF (512K)

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13. Selective pyrolytic synthesis of anhydrothioglycosides of 1,2,4-triazoles (EM-3232HP)

Ibtehal A. Al-Juwaiser, Elizabeth John, Maher R. Ibrahim, Yehia A. Ibrahim and Nouria A. Al-Awadi

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received May 14 2008; accepted Jul 24 2008; published Aug 17 2008;

14. Catalytic interaction of 1,3-diheteracycloalkanes with diazo compounds (EM-3143HP)

Rimma M. Sultanova, Marina D. Khanova and Vladimir A. Dokichev

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X, Y= O, N, S R= alkyl, Ph, alkenyl; R¹= H, CO₂Me

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15. Heterocycles in the service of humankind (EM-3314HU)

Alan R. Katritzky and E. Todadze

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- 1. Overcoming the Problems of Biting Insects
- 2. Bioconjugates for New Directions in Pharma Research: Applications of Acylbenzotriazoles
- 3. Attempts to help Chemistry in Developing Countries by Innovations in the Publishing and Dissemination of Organic Chemistry Research

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16. Synthesis and study of photosensitive chromone derivatives for recording media of archival three-dimensional optical memory (EM-3269HP)

Mikhail M. Krayushkin, Konstantin S. Levchenko, Vladimir N. Yarovenko, Igor V. Zavarzin, Valery A. Barachevsky, Yury A. Puankov,b Tatyana M.Valova,b and Olga I. Kobeleva

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