ARKIVOC Volume 2008

Part (x): Commemorative Issue in Honor of Prof. Nouria A. Al-Awadi on the occasion of her 55th anniversary

Facilitators: Osman El-Dusouqui and Frank Hegarty
Scientific Editor: John Arthur Joule

1. A Tribute to Prof. Nouria Al-Awadi (NA-1434UT)

Full Text: PDF (82K)

pp. 1 - 4

accepted Oct 1 2007; published Oct 14 2007;

2. Synthesis of azacrown sulfonamides via ring closing metathesis and their evaluation in lithium ion selective electrodes (NA-2580UP)

Yehia A. Ibrahim, Haider Behbehani, Elizabeth John, Nadia M. Shuaib and Adel F. Shoukry

Full Text: PDF (223K)

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$$\begin{array}{c} \text{CI} & \text{PCy}_3 \\ \text{CI} & \text{PCy}_3 \\ \text{PCy}_3 \\ \text{Ph} \\ \text{Ts} & \text{N} \\ \text{Ts} & \text{RCM} = \text{Grubbs' I (1.5-5mol\%), DCM, Reflux 2 h} \\ \text{RCM} = \text{Grubbs' I (1.5-5mol\%), DCM, Reflux 2 h} \\ \text{Y} = -, \text{CH}_2, \text{CH}_2\text{OCH}_2, (\text{CH}_2\text{OCH}_2)_2, \text{o-C}_6\text{H}_4} \\ \text{X} = -, \text{CH}_2\text{CH}_2\text{O, o-CH}_2\text{C}_6\text{H}_4\text{O}} \end{array}$$

received Jun 7 2007; accepted Aug 20 2007; published Nov 9 2007;

3. Studies with enamines: Functionally substituted enamines as aldehyde equivalents in Gewald reaction (NA-2603UP)

Saleh Al-Mousawi, Moustafa Sherief Moustafa and Mohamed Hilmy Elnagdi

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pp. 17 - 25

received Jun 20 2007; accepted Sep 2 2007; published Nov 28 2007;

4. Synthesis of achiral and chiral N-protected γ-amino-β-ketones and β-ketoesters (NA-2692UP)

Alan R. Katritzky, Zuoquan Wang and C. D. Hall

Full Text: PDF (198K)

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received Aug 8 2007; accepted Oct 22 2007; published Dec 14 2007;

5. Nucleophilicity of the bis-(4-nitrophenyl)-methyl anion (NA-2711UP)

Stefan T. A. Berger, Tadeusz Lemek and Herbert Mayr

Full Text: PDF (407K)

pp. 37 - 53

received Aug 16 2007; accepted Nov 1 2007; published Jan 27 2008;

6. Alkyl heteroaromatic as precursors to polycyclic heteroaromatics: Recent developments (NA-2602UR)

Ismail Abdelshafy Abdelhamid, Said Ahmed Soliman Ghozlan and Mohamed Hilmy Elnagdi Full Text: PDF (500K)

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A Review with 54 references

received Jun 20 2007; accepted Jan 28 2008; published Feb 24 2008;

7. Synthesis and spectral properties of tetrapyrazinoporphyrazinato metal complexes derived from sterically hindered phenol (NA-2704UP)

Fadi Ibrahim and Saad Makhseed

Full Text: PDF (209K)

pp. 85 - 94

$$O_2N$$
 O_2
 O_2N
 O_2
 O_2

received Aug 11 2007; accepted Nov 15 2007; published Feb 24 2008;

$\textbf{8. A new synthesis of the F5 furan fatty acid and a first synthesis of the F6 furan fatty acid (NA-partial or partial or partial$

2833UU)

Anne B. Evans, Susanne Flügge, Simon Jones, David W. Knight and Wen-Fei Tan

Full Text: PDF (100K)

pp. 95 - 102

received Oct 19 2007; accepted Dec 30 2007; published Feb 29 2008;

9. Pyrolytic decomposition of simple acetylenic esters (NA-2851UP)

R. Alan Aitken and John J. Morrison

Full Text: PDF (208K)

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10. Thermolysis of N-tetramethylpiperidinyl esters: homolytic fragmentation and induced decomposition (NA-2855UP)

Huda Henry-Riyad and Thomas T. Tidwell

Full Text: PDF (252K)

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received Oct 31 2007; accepted Dec 3 2007; published Mar 15 2008;

11. Synthesis and antimicrobial activity of new triazolopyrimidinecarbonitrile derivatives (NA-2724UP)

Azza M. Kadry, Eatedal H. Abdel Aal, Hanan A. Abdel-Fattah and Amany M. Al-Mahmoudy

Full Text: PDF (219K)

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received Aug 22 2007; accepted Oct 30 2007; published Mar 15 2008;

12. Thermodynamic stabilities of propylenebenzenium ions in the gas phase. Substituent effect of unsymmetrical phenonium ions (NA-2980UP)

Mustanir, Soe Than, Shuhei Itoh and Masaaki Mishima

Full Text: PDF (304K)

Supplementary Material: PDF (1,185K)

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$$K = \frac{CH_3}{CH_2CHBr} + \frac{CH_3}{CH_3}$$
 $K = \frac{CH_3}{CH_2CHBr} + \frac{CH_3}{CH_3CHBr}$
 $CH_3 = \frac{CH_3}{CH_3CHBr} + \frac{CH_3}{CH_3CHBr}$

received Jan 9 2008; accepted Feb 29 2008; published Apr 25 2008;

13. Kinetics and mechanism of the aminolysis of diaryl carbonates (NA-2960UP)

Enrique A. Castro, Claudia Soto, BÃjrbara VÃjsquez and José G. Santos

Full Text: PDF (201K)

pp. 151 - 160

$$Ar = 0 - C - 0 - DNP + HN$$
 $concerted$
 $Ar = 0 - C - N$
 H
 $concerted$
 $Ar = 0 - C - N$
 H
 $Concerted$
 $Ar = 0 - C - N$
 H
 $Concerted$
 $Concerted$

Ar = 4-miropheryl and 2,4-dimitropheryl DNP =2,4-dimitropheryl NH = secondary alicyclic amine

received Dec 26 2007; accepted Mar 23 2008; published Apr 25 2008;

14. Reactivity of sterically hindered diarylbenzhydryl carbocations Â- competing trapping by nucleophiles and elimination (NA-2965UP)

Anthony F. Hegarty and Valerie E. Wolfe

Full Text: PDF (4,188K)

pp. 161 - 182

$$\begin{array}{c} Ar \\ H \\ CI \\ CH_3 \end{array} \qquad \begin{array}{c} Ar \\ H \\ H \end{array}$$

received Dec 29 2007; accepted Mar 23 2008; published Apr 25 2008;

15. The protonation of carbenes: structural effects on α-proton acidity of carbocations (NA-2985UP)

J. R. Keeffe and R. A. More OÂ'Ferrall

Full Text: PDF (277K)

Supplementary Material: PDF (130K)

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$$CH_3^+ + H_2O$$
 $pK_8 = -43$
 $H^+ + CH_2 + H_2O \longrightarrow H^+ + CH_3OH$
 $pK_{H2O} = -70$

received Jan 12 2008; accepted Mar 27 2008; published Jun 6 2008;