#### **ARKIVOC Volume 2003**

### Part (xii): Commemorative Issue in Honor of Prof. Henry J. Shine on the occasion of his 80th anniversary

Scientific Editor: Christian V. Stevens

#### 1. A Tribute to Prof. Henry J. Shine (HS-479JT)

Richard A. Bartsch
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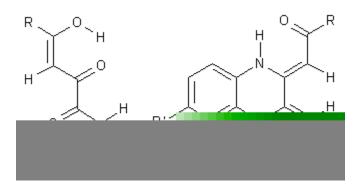
accepted Apr 6 2003; published Apr 8 2003;

### 2. Assignment of the $^{1}$ H and $^{13}$ C NMR spectra of 1-methyl-6-phenyl-1 $\alpha$ ,4 $\alpha$ ,4 $\alpha$ ,5 $\alpha$ ,8 $\beta$ ,8a $\alpha$ -hexahydro-1,4-methanonaphthalene-5,8-diol (HS-641JP)

David E. Minter, Alan P. Marchand and Fuh-Rong Tsay

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received Jan 8 2003; accepted Mar 3 2003; published Apr 11 2003;

#### 3. Electroorganic reactions. Part 58. Revisiting the cleavage of oxalate ester radical-anions (HS-742JP)

James H.P. Utley and Shalini Ramesh

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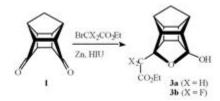
received Mar 26 2003; accepted May 28 2003; published May 29 2003;

# **4.** High-intensity ultrasound-promoted Reformatsky reactions of pentacyclo[5.4.0.0<sup>2,6</sup>.0<sup>3,10</sup>.0<sup>5,9</sup>]undecane-**8,11**-dione (HS-766JP)

Nathan A. Ross, Richard A. Bartsch and Alan P. Marchand

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received May 23 2003; accepted Jun 6 2003; published Jun 13 2003;

### 5. Tritylamine (triphenylmethylamine) in organic synthesis; II. The reaction of tritylamine with oxiranes – synthesis of *N*-trityl-β-aminoalcohols (HS-757JP)

Miroslaw Soroka and Waldemar Goldeman

Full Text: PDF (235K)

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$$Ph + NH_2 + RO \longrightarrow Ph + NH_2 \cap H_2N \cap$$

received May 9 2003; accepted Jun 19 2003; published Jun 21 2003;

### 6. Nucleophilic reactions at the ring carbons of thiiranium and thiirenium ions. An experimental and theoretical comparison of the $S_N2$ -Vin mechanisms (HS-753JP)

Giuseppe Borsato, Vittorio Lucchini, Giorgio Modena, Lucia Pasquato and Alfonso Zambon

Full Text: PDF (391K)

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$$S_N2$$
:

 $Almost linear correlation between  $\Delta E_{el}$  for processes  $a, b$  and  $c$  and  $SC_1$ ,  $SC_2$  and  $SC_3$  bond length reciprocals (HF/3-21G*//3-12G*).$ 

received Apr 30 2003; accepted Jun 4 2003; published Jun 26 2003;

### 7. The cinnamate-based aminohalogenation provides an easy access to *anti* methyl 3-aryl-*N-p*-tosyl-and *N-o*-nosyl-aziridine-2-carboxylates (HS-759JP)

Dianjun Chen, Sun Hee Kim, Brian Hodges and Guigen Li

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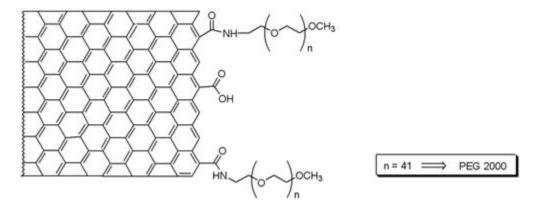
received May 9 2003; accepted Aug 12 2003; published Aug 27 2003;

## 8. Shortened single-walled nanotubes functionalized with poly(ethylene glycol): preparation and properties (HS-804JP)

Enzo Menna, Gianfranco Scorrano, Michele Maggini, Matteo Cavallaro, Federico Della Negra, Marino Battagliarin, Renato Bozio, Fabiana Fantinel and Moreno Meneghetti

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received Jun 10 2003; accepted Sep 15 2003; published Sep 30 2003;

#### 9. Microwave assisted N-chlorination of secondary amides (HS-873JP)

Alan R. Katritzky, Suman Majumder and Ritu Jain

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received Aug 21 2003; accepted Sep 30 2003; published Oct 10 2003;

#### 10. Synthesis of N-pivot lariat ethers and their metal ion complexation behavior (HS-832JP)

Larry D. Bratton, Bozena Strzelbicka and Richard A. Batsch

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#### 11. The free radical chemistry of the azoxy group (HS-810JR)

Paul S. Engel, Shaoming Duan, Shulin He, Konstantin Tsvaygboym, Chengrong Wang, Aiyin Wu, Yunming Ying and William B. Smith

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#### 12. Protein crosslinking by 1,8-naphthalimides: influence of the 4-substituent (HS-908JP)

R. Jeremy Woods, Jianxing Zhang, Charalene R. Green and Robert R. Kane

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Protein

$$X = -H, -Br, -NHEt, -OEt, -SEt$$

Crosslinked Protein

received Sep 7 2003; accepted Oct 27 2003; published Nov 21 2003;

# 13. Synthesis and study of poly(3-hexylthiophenes) and poly(3-dodecylthiophenes) containing halogen and sulfur substituents in the $\omega$ -position of the side chain (HS-830JP)

Martin Pomerantz, Lixin (Martha) Liu and Xinnong (Simon) Zhang

Full Text: PDF (463K)

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$$(CH_2)_mBr$$
  $(CH_2)_6I$   
 $O$   
 $(CH_2)_mS-C-CH_3$   $(CH_2)_6SH$   
 $m = 6, 12$ 

received Jul 16 2003; accepted Oct 22 2003; published Dec 5 2003;

# 14. Synthesis of 2-(arylthio)-3'-(alkyl- or dialkylamino)diphenyl sulfides via 5-arylthianthrenium perchlorates and their complexations with silver(I) and lead(II) ions (HS-868JP)

Kyongho Yoon, Kab Sig Kim and Kyongtae Kim

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received Aug 18 2003; accepted Dec 12 2003; published Dec 30 2003;

## 15. Structure-cation complexation relationships for *ortho-, meta-,* and *para-*substituted bis(oxymethylcrown)benzenes and $\alpha,\alpha'$ -xylenes (HS-916JP)

David A. Babb, Bronislaw P. Czech and Richard A. Bartsch

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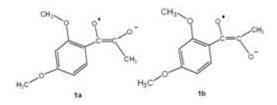
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16. Electron spin resonance studies of substituent effects. Part 6. Experimental and theoretical studies of ortho substituent-induced *cis-trans* isomerization in 1-phenyl-1,2-propanesemidiones (HS-882JP)

E. Thomas Strom, Dennis S. Marynick and Brinkley S. Snowden, Jr.

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received Aug 28 2003; accepted Feb 4 2004; published Feb 7 2004;

17. Fragmentation *vs* rearrangement of the amide and thioester groups in 4,4-disubstituted cyclohexadienones (HS-892JP)

John N. Marx and Howard M. Merken

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received Jun 24 2003; accepted Feb 14 2004; published Feb 26 2004;

18.  $\sigma$ -Complexes as biochemical and biophysical probes. Part 6. The interaction of *N*-2,4,6-trinitrophenyl-L-lysine with methoxide ion in dimethylsulfoxide-methanol (95%-5% v/v) mixture: proton transfer and  $\sigma$ -complex formation (HS-1077JP)

### Ikenna Onyido, Masashi Hamaguchi and Erwin Buncel

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