

Tetrahedron Letters Vol. 51, No. 37, 2010

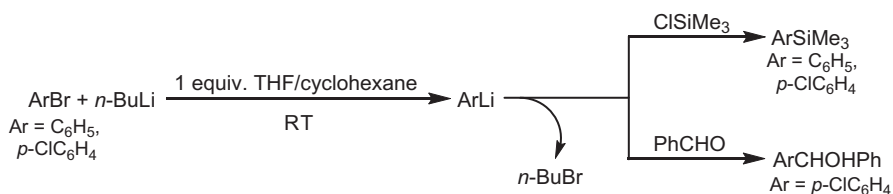
Contents

COMMUNICATIONS

Halogen/lithium exchange in hydrocarbon media; basic and continuous reactor studies

pp 4793–4796

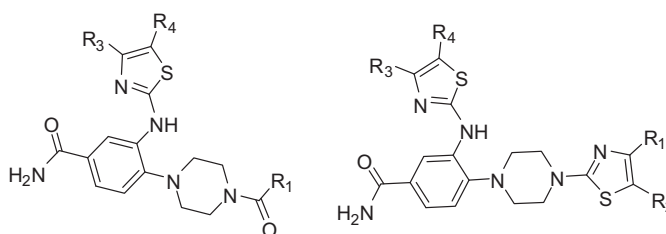
D. W. Slocum*, Damir Kusmic, Jeffrey C. Raber, Thomas K. Reinscheld, Paul E. Whitley*



Diversity-oriented synthesis of *N*-aryl-*N*-thiazolyl compounds

pp 4797–4800

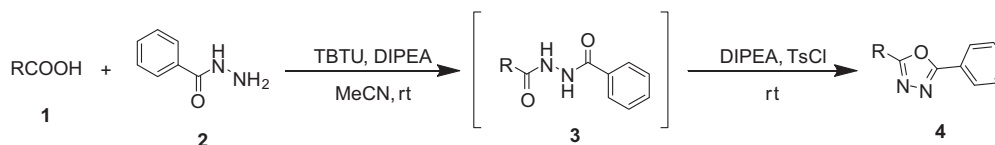
Adel Nefzi*, Sergey Arutyunyan



Mild and convenient one-pot synthesis of 1,3,4-oxadiazoles

pp 4801–4805

Paolo Stabile*, Alessandro Lamonica, Arianna Ribecai, Damiano Castoldi, Giuseppe Guercio, Ornella Curcuruto



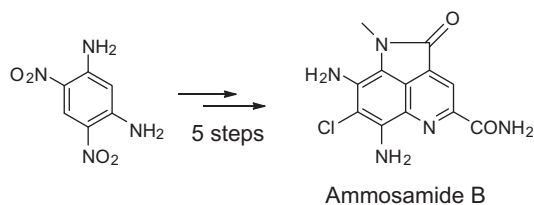
Condensation of carboxylic acids with benzohydrazide in the presence of TBTU afforded diacylhydrazine intermediates that underwent a smooth TsCl-mediated cyclodehydration reaction to afford 2-phenyl-5-substituted-1,3,4-oxadiazoles in good to very good yields.



Short and straightforward total synthesis of Ammosamide B

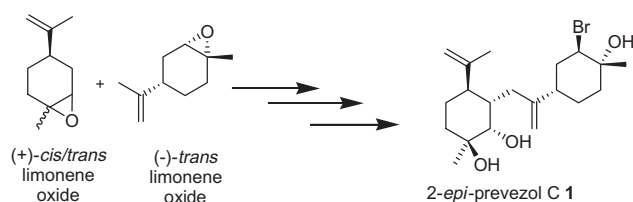
pp 4806–4807

Qian Wu, Xiaozhen Jiao, Liping Wang, Qiong Xiao, Xiaoyu Liu, Ping Xie*

**Towards the synthesis of prevezol C: total enantioselective synthesis of (-)-2-*epi*-prevezol C**

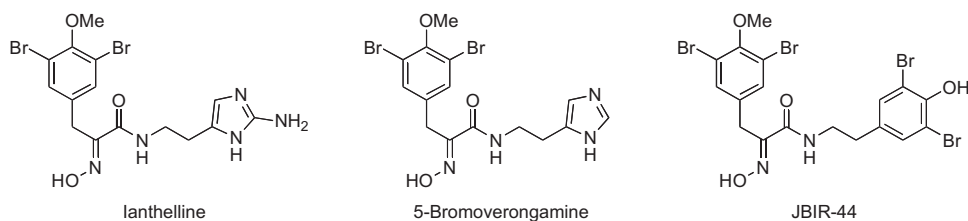
pp 4808–4811

Michael Blair, Craig M. Forsyth, Kellie L. Tuck*

(-)-2-*epi*-Prevezol C was readily accessed from the chirons (-)- and (+)-limonene oxide in a total of nine steps and in 24% yield.**Total syntheses of the bromotyrosine-derived natural products ianthelline, 5-bromoverongamine and JBIR-44**

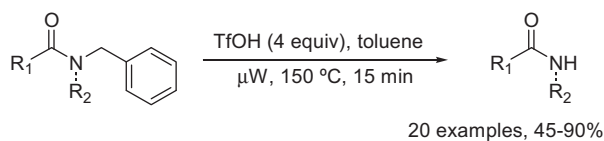
pp 4812–4814

James W. Shearman, Rebecca M. Myers, Thomas M. Beale, James D. Brenton, Steven V. Ley*

**Microwave-assisted N-debenzylation of amides with triflic acid**

pp 4815–4818

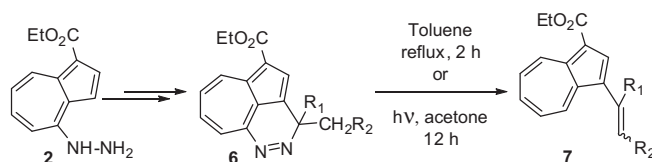
Frederik Rombouts*, Dennis Franken, Carolina Martínez-Lamenca, Mirielle Braeken, Chiara Zavattaro, Jinsheng Chen, Andrés A. Trabanco*

A new and facile microwave-assisted protocol for the debenylation of *N*-benzylamides with triflic acid has been developed. Both secondary and tertiary aliphatic or aromatic amides are obtained in moderate to good yields.

Efficient syntheses of 3*H*-azuleno[8,1-*cd*]pyridazines and their thermal and photochemical reactions

pp 4819–4822

Chi-Phi Wu*, Rammohan Devulapally, Tsung-Chieh Li, Chien-Kuo Ku*, Hsien-Chung Chung

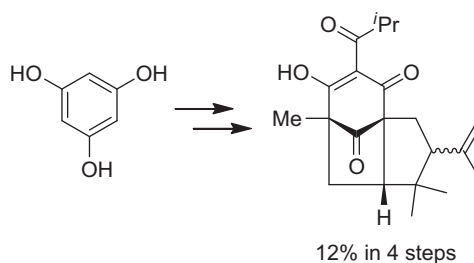


Azulenopyridazines **6** were efficiently synthesized from ethyl 4-hydrazinylazulene-1-carboxylate (**2**) using *p*-toluenesulfonic acid-catalyzed imine formation and intramolecular cyclization followed by dehydrogenation with KOH/MeOH in a one-pot operation. Thermal and photochemical reactions of azulenoypyridazines **6** afforded 1-vinylazulenes **7** in good yields.

Expedient synthesis of ialibinones A and B by manganese(III)-mediated oxidative free radical cyclisation

pp 4823–4826

Nigel S. Simpkins*, Michael D. Weller

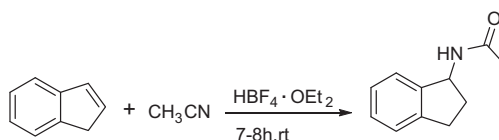


Ialibinones **A** and **B** were prepared in four steps from phloroglucinol by acylation under Friedel–Crafts conditions, double prenylation and dearomatising methylation, followed by oxidative free radical cyclisation using manganese(III) acetate.

**HBF₄·OEt₂ as a mild and versatile reagent for the Ritter amidation of olefins: a facile synthesis of secondary amides**

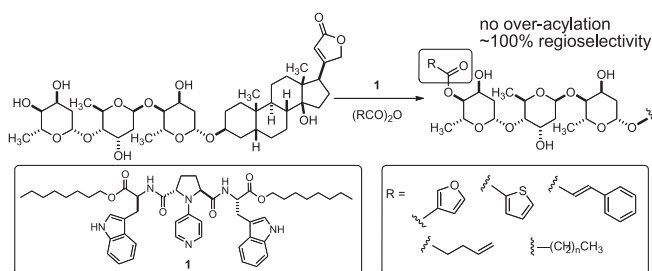
pp 4827–4829

B. V. Subba Reddy*, N. Sivasankar Reddy, Ch. Madan, J. S. Yadav

**Perfectly regioselective acylation of a cardiac glycoside, digitoxin, via catalytic amplification of the intrinsic reactivity**

pp 4830–4832

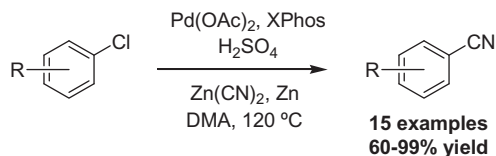
Keisuke Yoshida, Takumi Furuta, Takeo Kawabata*



Sulfate additives generate robust and highly active palladium catalysts for the cyanation of aryl chlorides

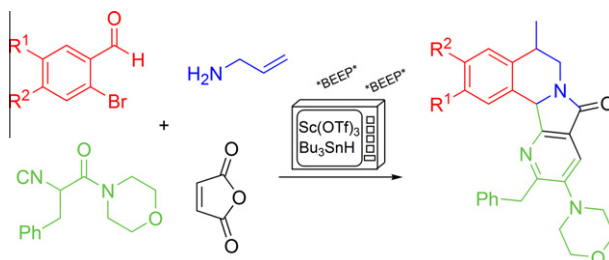
pp 4833–4836

Michael Shevlin

**Synthesis of a tetracyclic lactam system of Nuevamine by four-component reaction and free radical cyclization**

pp 4837–4839

Angel Zamudio-Medina, Ma. Carmen García-González, Juan Padilla, Eduardo González-Zamora*

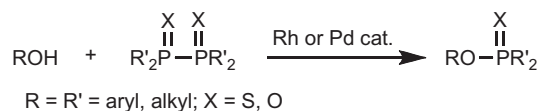


A series of aza-analogs of nuevamine were prepared from readily available aldehyde, amine, and isonitrile compounds and maleic anhydride by combining a novel four-component reaction and free radical cyclization. The operational simplicity of this novel heterocycle synthesis process will be valuable for the synthesis of fused ring systems.

Metal-catalyzed phosphinyl ester forming reaction of alcohols and phenols with diphosphine disulfides and a dioxide

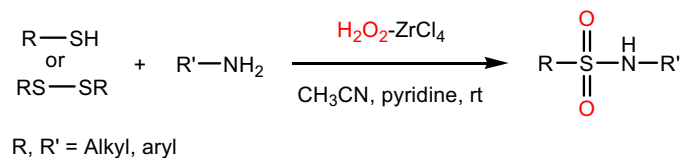
pp 4840–4842

Mieko Arisawa, Masahiko Yamaguchi*

**Direct conversion of thiols and disulfides into sulfonamides**

pp 4843–4846

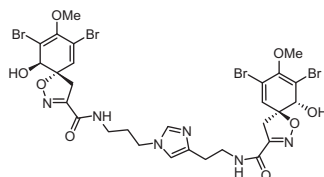
Kiumars Bahrami*, Mohammad M. Khodaei*, Mehdi Soheilzad



Pseudoceratinazole A: a novel bromotyrosine alkaloid from the Australian sponge *Pseudoceratina* sp.

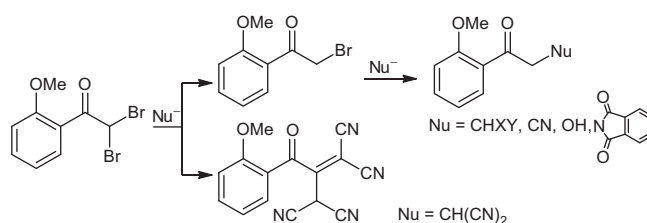
pp 4847–4850

Yunjiang Feng, Rohan A. Davis, Melissa L. Sykes, Vicky M. Avery, David Camp, Ronald J. Quinn*

**Bromophilic substitution/carbophilic substitution cascade reactions of α,α -dibromo-2-methoxyacetophenone with C-, N- and O-nucleophiles**

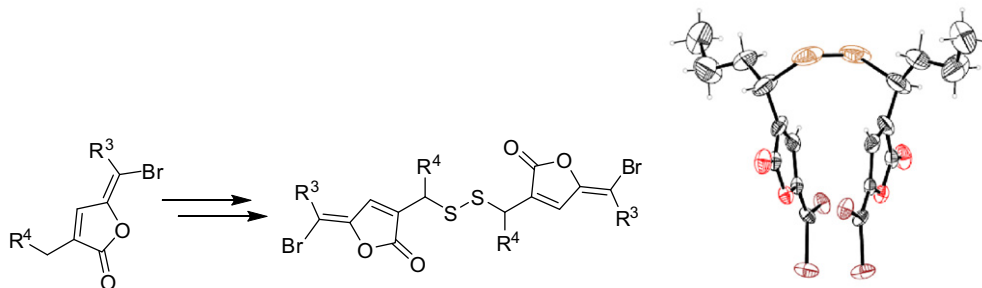
pp 4851–4855

Jovana Tatar, Rade Marković, Milovan Stojanović, Marija Baranac-Stojanović*

**Fimbroliide disulfanes: synthesis and crystal interactions**

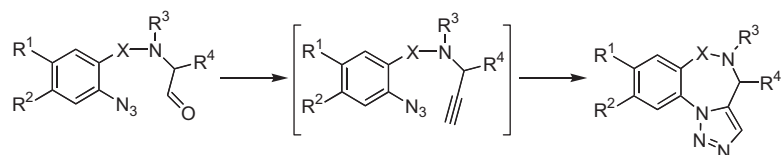
pp 4856–4858

Samuel K. Kutty, Mohan M. Bhadbhade, George Iskander, Roger Bishop, Renate Griffith, David StC. Black, Naresh Kumar*

**Intramolecular 1,3-dipolar cycloaddition as a route to triazolobenzodiazepines and pyrrolobenzodiazepines**

pp 4859–4861

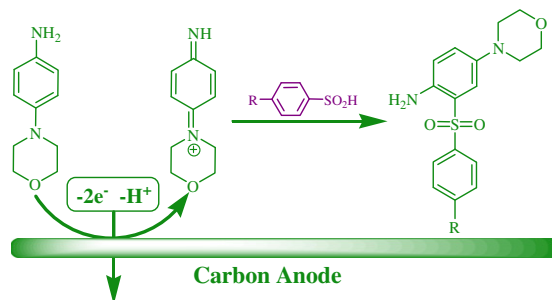
Christopher S. Chambers, Nilesh Patel, Karl Hemming*

X = CO or SO₂; R¹ = R² = H or OMe/OBn; R⁴ = Ph, ^tPr, Me or Trp; R³ = H or R³-R⁴ = (CH₂)₃Treatment of *N*-(2-azidoaryl)aminals with the Bestmann–Ohira reagent leads to triazolobenzodiazepines in high yields.

A green approach for the electrochemical synthesis of 4-morpholino-2-(arylsulfonyl)benzenamines

pp 4862–4865

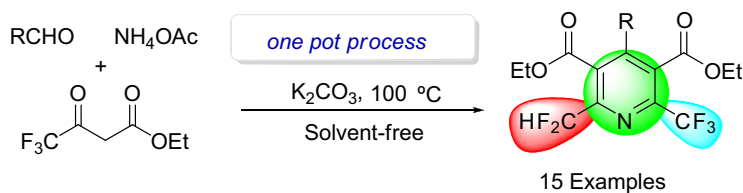
D. Nematollahi*, R. Esmaili



K₂CO₃-assisted one-pot sequential synthesis of 2-trifluoromethyl-6-difluoromethylpyridine-3,5-dicarboxylates under solvent-free conditions

pp 4866–4869

Li Shen, Song Cao*, Jingjing Wu, Hui Li, Jian Zhang, Mingxi Wu, Xuhong Qian*



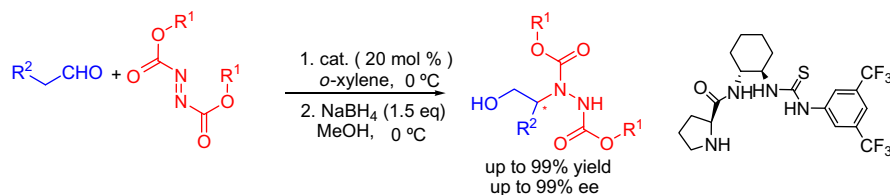
A novel synthesis of 2-trifluoromethyl-6-difluoromethylpyridine-3,5-dicarboxylates via K₂CO₃-assisted one-pot sequential Hantzsch reaction/dehydration/dehydrofluorination under solvent-free conditions was described.



Highly effective and enantioselective α -amination of aldehydes promoted by chiral proline amide–thiourea bifunctional catalysts

pp 4870–4873

Ji-Ya Fu, Qing-Chun Huang, Qiao-Wei Wang, Li-Xin Wang*, Xiao-Ying Xu*



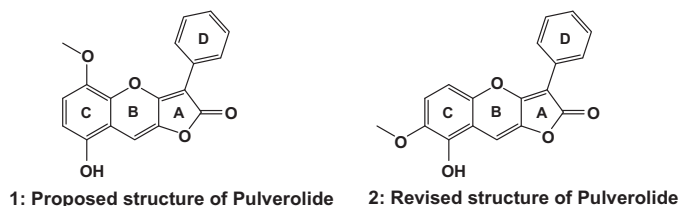
A series of secondary amine–thiourea catalysts derived from L-proline and chiral diamine were prepared and first applied to highly enantioselective amination of unmodified aldehydes with various azodicarboxylates in excellent yields (up to 99%) and enantioselectivities (up to 99% ee) within a few minutes.



Total synthesis of pulverolide: revision of its structure

pp 4874–4876

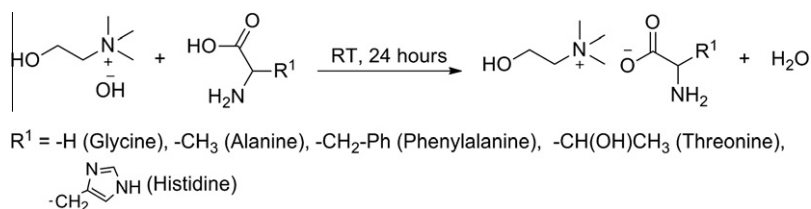
Wanqiu Yang, Jikai Liu*, Hongbin Zhang*



Synthesis, characterization, and catalytic activity of ionic liquids based on biosources

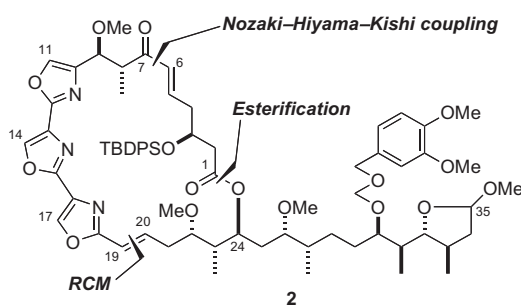
pp 4877–4881

P. Moriel, E. J. García-Suárez*, M. Martínez, A. B. García, M. A. Montes-Morán, V. Calvino-Casilda*, M. A. Bañares

**Synthetic studies of mycalolide B, an actin-depolymerizing marine macrolide: construction of the tris-oxazole macrolactone using ring-closing metathesis**

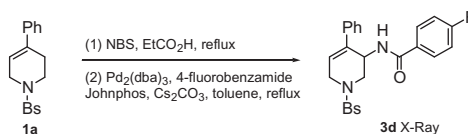
pp 4882–4885

Masaki Kita, Hidekazu Watanabe, Tomoya Ishitsuka, Yuzo Mogi, Hideo Kigoshi*

Tris-oxazole macrolactone **2**, a key intermediate of mycalolide B, was synthesized through the use of ring-closing metathesis (RCM).**Pd₂(dba)₃-promoted synthesis of 3-N-substituted 4-aryl-1,2,3,6-tetrahydropyridine**

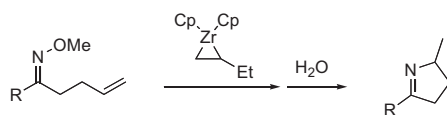
pp 4886–4889

Meng-Yang Chang*, Chung-Han Lin, Yeh-Long Chen, Ru-Ting Hsu, Ching-Yao Chang

**Low-valent zirconocene-mediated cyclization of γ,δ -unsaturated oximes**

pp 4890–4893

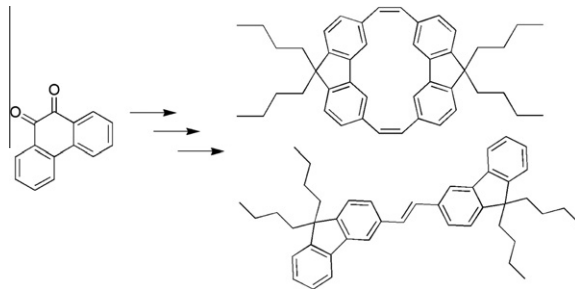
Mitsuru Kitamura*, Yuki Shintaku, Daisuke Kudo, Tatsuo Okauchi



Synthesis and properties of cyclic ethylene-bridged 3,6-fluorene dimer and its linear analogues

pp 4894–4897

Yabin Song, Wei Xu*, Daoben Zhu*

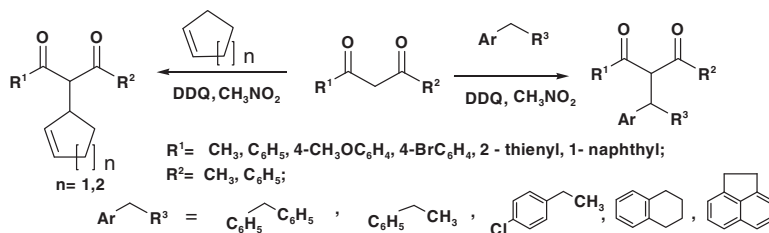


Three oligomers of ethylene-bridged 3,6-fluorene were synthesized starting from phenanthrenequinone.

**Metal-free oxidative C–C bond formation of active methylenic sp³ C–H bonds with benzylic sp³ C–H and allylic sp³ C–H bonds mediated by DDQ**

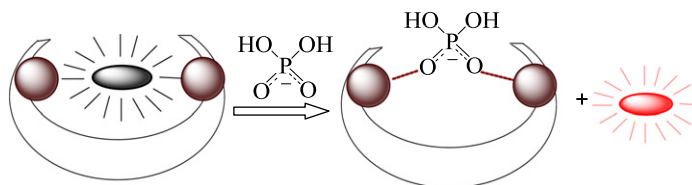
pp 4898–4903

D. Ramesh, U. Ramulu, S. Rajaram, P. Prabhakar, Y. Venkateswarlu*

**Fluorescent detection of phosphate anion by a highly selective chemosensor in water**

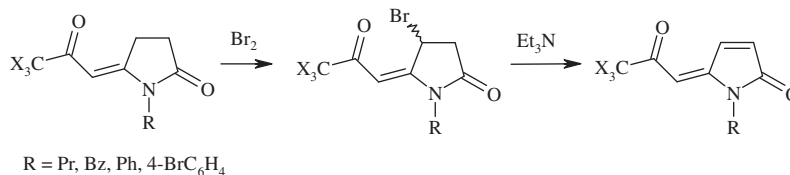
pp 4904–4907

Musabbir A. Saeed, Douglas R. Powell, Md. Alamgir Hossain*

**Efficient synthesis of new 1-alkyl(aryl)-5-(3,3,3-trihalo-2-oxopropylidene)-1H-pyrrol-2(5H)-ones**

pp 4908–4910

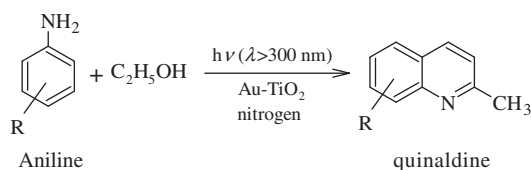
Alex F. C. Flores*, Lucas Pizzuti, Luciana A. Piovesan, Darlene C. Flores, Juliana L. Malavolta, Claudio M. P. Pereira



Au-doped TiO₂ nanoparticles for selective photocatalytic synthesis of quinaldines from anilines in ethanol

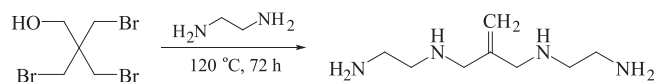
pp 4911–4914

K. Selvam, M. Swaminathan*

**Pentaerythritol fragmentation during conversion to a polyamine ligand— isolation of 1,1-bis(2'-aminoethylaminomethyl)-ethene**

pp 4915–4917

Young Hoon Lee, Cindy Mora, Ji Young Choi, Jong Chul Byun, Jack M. Harrowfield, Pierre Thuéry, Yang Kim*



*Corresponding author

Supplementary data available via ScienceDirect

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