



Iminium Salts of ω -Dithiafulvenylpolyenals: An Easy Entry to the Corresponding Aldehydes and Doubly Proaromatic Nonlinear Optic-phores

Submitted by Emmanuel Lemoine on Tue, 02/04/2014 - 16:12

Titre	Iminium Salts of ω -Dithiafulvenylpolyenals: An Easy Entry to the Corresponding Aldehydes and Doubly Proaromatic Nonlinear Optic-phores
Type de publication	Article de revue
Auteur	Alías, Silvia [1], Andreu, Raquel [2], Blesa, María-Jesús [3], Cerdán, Miguel-Angel [4], Franco, Santiago [5], Garín, Javier [6], López, Carolina [7], Orduna, Jesús [8], Sanz, Jorge [9], Alicante, Raquel [10], Villacampa, Belén [11], Allain, Magali [12]
Type	Article scientifique dans une revue à comité de lecture
Année	2008
Langue	Anglais
Date	2008/08
Numéro	15
Pagination	5890 - 5898
Volume	73
Titre de la revue	The Journal of Organic Chemistry
ISSN	0022-3263
Résumé en anglais	<p>A short, high-yielding route to ω-dithiafulvenylpolyenals (1) via the corresponding iminium salts (2) and starting from trimethyl-1,3-dithiolium tetrafluoroborate is reported. The Knoevenagel reactions of either 1 or 2 with isoxazolone-containing acceptors afford merocyanines 7 and 9, in a process that is often accompanied by a vinylene-shortening side reaction. Experimental and theoretical studies reveal that compounds 7 and 9, featuring two proaromatic end groups, are strongly polarized and show good second-order nonlinear optical responses.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua1920 [13]
DOI	10.1021/jo800801q [14]
Lien vers le document	http://dx.doi.org/10.1021/jo800801q [14]
Titre abrégé	Iminium Salts of ω -Dithiafulvenylpolyenals

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=2514](http://okina.univ-angers.fr/publications?f[author]=2514)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=2515](http://okina.univ-angers.fr/publications?f[author]=2515)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=24688](http://okina.univ-angers.fr/publications?f[author]=24688)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=2517](http://okina.univ-angers.fr/publications?f[author]=2517)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=2518](http://okina.univ-angers.fr/publications?f[author]=2518)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=2519](http://okina.univ-angers.fr/publications?f[author]=2519)

- [7] [http://okina.univ-angers.fr/publications?f\[author\]=2520](http://okina.univ-angers.fr/publications?f[author]=2520)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=2521](http://okina.univ-angers.fr/publications?f[author]=2521)
- [9] [http://okina.univ-angers.fr/publications?f\[author\]=2522](http://okina.univ-angers.fr/publications?f[author]=2522)
- [10] [http://okina.univ-angers.fr/publications?f\[author\]=2523](http://okina.univ-angers.fr/publications?f[author]=2523)
- [11] [http://okina.univ-angers.fr/publications?f\[author\]=2524](http://okina.univ-angers.fr/publications?f[author]=2524)
- [12] <http://okina.univ-angers.fr/magali.allain/publications>
- [13] <http://okina.univ-angers.fr/publications/ua1920>
- [14] <http://dx.doi.org/10.1021/jo800801q>

Publié sur *Okina* (<http://okina.univ-angers.fr>)