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1-1-2000

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Jeffries, Laura, and Eric Bosch. "2, 4, 6-Tris (2', 4', 6'-trimethylphenylethynyl) mesitylene." *Molecules* 5, no. 4 (2000): M147.

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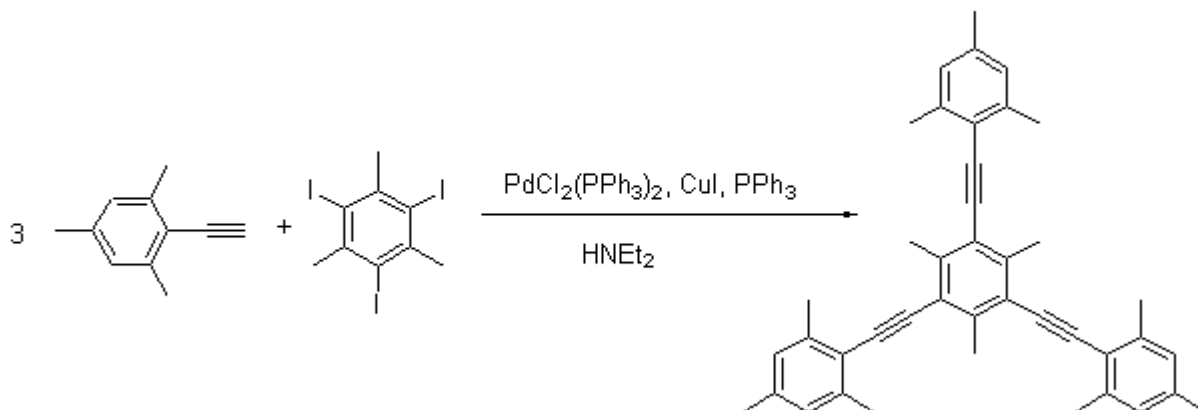
Molecules **2000**, *5*, M147

2,4,6-Tris(2',4',6'-trimethylphenylethynyl)mesitylene

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Received: 24 February 2000 / Accepted: 28 February 2000 / Published: 28 April 2000



The experimental procedure follows the general synthesis of arylalkynes reported by Sonogashira [1]. Thus a solution of 2,4,6-triiodomesitylene (1.14 g, 2.29 mmol), 2-ethynylmesitylene (1.1 g, 7.638 mmol), bis(triphenylphosphine)palladium dichloride (0.089 g), copper iodide (0.041 g) and triphenylphosphine (0.225 g) in triethyl amine (40 mL) was refluxed under an argon atmosphere for 48 h [2,3]. The solvent was removed in vacuo and the solid residue washed with dichloromethane and water. The residue was dissolved in hot toluene and allowed to crystallize slowly yielding 0.95 g of the title compound as fine pale green needles (76 % yield).

M.p. 318-322 °C.

IR (KBr): 3019, 2960, 2920, 2848, 2197, 1618, 1485 cm⁻¹.

¹H NMR (200 MHz, CDCl₃): 2.31 (9H, s, CH₃), 2.53 (18H, s, CH₃), 2.83 (9H, s, CH₃), 6.94 (6H, s, Ar-H).

Anal. Calcd. for C₄₂H₄₂, C: 92.25, H: 7.74. Found C: 91.60, H: 7.75.

Acknowledgements: The authors gratefully acknowledge financial support from Southwest Missouri State University.

References and Notes

1. Takahashi, S.; Kuroyama, Y.; Sonogashira, K.; Hagihara, N. *Synthesis* **1980**, 627.
2. 2-Ethynylmesitylene was prepared according to the general procedure in reference 1.
3. Full characterization of 2-ethynylmesitylene is reported in: Tinnenmans, A. H. A.; Laarhoven, W. H. *Tetrahedron* **1979**, *35*, 1537.

Sample Availability: Available from the authors.

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