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NMR Chemical Shifts of Trace Impurities: Common Laboratory Solvents, Organics, and Gases in Deuterated Solvents Relevant to the Organometallic Chemist

Gregory R. Fulmer, Alexander J. M. Miller, Nathaniel H. Sherden, Hugo E. Gottlieb, Abraham Nudelman, Brian M. Stoltz, John E. Bercaw and Karen I. Goldberg
 Publication Date (Web): April 16, 2010 (Article)
 DOI: 10.1021/om100106e

NMR Data for Common Contaminants in Frequently Used Deuterated Solvents

| contaminant | proton | mult | THF- <i>d</i> ₈ | CD ₂ Cl ₂ | toluene- <i>d</i> ₈ | C ₆ D ₆ Cl ₂ | TFE- <i>d</i> ₃ |
|------------------|-----------------|------|----------------------------|---------------------------------|--------------------------------|-----------------------------------------------|----------------------------|
| <i>n</i> -hexane | CH ₃ | t | 0.89 | 0.89 | 0.88 | 0.85 | 0.91 |
| | CH ₂ | m | 1.29 | 1.27 | 1.22 | 1.19 | 1.31 |
| hydrogen | H ₂ | s | 4.55 | 4.59 | 4.50 | 4.49 | 4.53 |
| imidazole | CH(2) | s | 7.48 | 7.63 | 7.30 | 7.53 | 7.61 |
| | CH(4,5) | s | 6.94 | 7.07 | 6.86 | 7.01 | 7.03 |
| methane | CH ₄ | s | 0.19 | 0.21 | 0.17 | 0.15 | 0.18 |

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Legacy of Richard Heck

Donald A. Watson (Guest Editor)
 Publication Date (Web): May 9, 2016 (Editor's Page)
 DOI: 10.1021/acs.organomet.6b00261

Abstract

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Synthesis of (Imido)Vanadium(V) Dichloride Complexes Containing Anionic N-Heterocyclic Carbenes That Contain a Weakly Coordinating Borate Moiety: New MAO-Free Ethylene Polymerization Catalysts

Atsushi Igarashi, Eugene L. Kolychev, Matthias Tamm, and Kotohiro Nomura
 Publication Date (Web): May 9, 2016 (Article)
 DOI: 10.1021/acs.organomet.6b00200

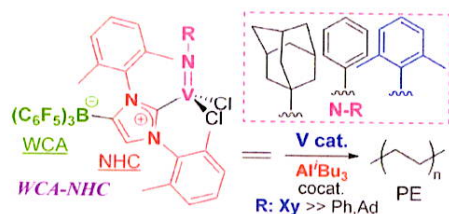


Figure 1 of 3

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