Gallium-Gallium Single Bonds Terminally Coordinated by Tropolonato Ligands

Werner Uhl, Malte Prött, Gertraud Geiseler, and Klaus Harms

Fachbereich Chemie der Philipps-Universität Marburg,
Hans-Meerwein-Straße, D-35032 Marburg, Germany

Reprint requests to Prof. Dr. W. Uhl. E-mail: Uhl@chemie.uni-marburg.de

Z. Naturforsch. **57 b,** 141–144 (2002); received October 23, 2001

Gallium, Tropolonato Complexes, Gallium-Gallium Bonds

Tetrakis[bis(trimethylsilyl)methyl]digallane(4) (**1**) reacted with tropolone (2-hydroxi-2,4,6-cycloheptatrien-1-one) by replacement of two bis(trimethylsilyl)methyl groups and retention of its Ga-Ga single bond. Each gallium atom of the centrosymmetric product (**2**) is chelated by a tropolonato ligand. The Ga-Ga bond length (244.9 pm) is in the characteristic range of unsupported Ga-Ga bonds.