133.4, 143.8, 145.1, 193.7 (C═O). Anal. Calcd for $C_{10}H_{12}OS$: C, 66.63; H, 6.71; O, 8.88. Found: C, 66.83; H, 6.92; O, 9.18.

1-(2-Furyl)-2,3-dimethylbut-3-en-1-one (3d):[18] colorless oil, bp 70 °C (5.0 mmHg, Kugelrohr). IR (neat): 1673.0 cm^{-1} ($\nu_{C=O}$). ^1H NMR ($CDCl_3$, 400 MHz): δ 1.31 (d, 3H, CH_3, J = 6.84 Hz), 1.76 (s, 3H, CH_3), 3.94 (q, CH, J = 6.84 Hz), 4.90 (s, 1H, CH_2═), 4.92 (s, 1H, CH_2═), 6.52 (dd, 1H, furyl, J = 3.42, 1.47 Hz), 7.23 (d, 1H, furyl, J = 3.42 Hz), 7.58 (d, 1H, furyl, J = 1.47 Hz). ^{13}C NMR ($CDCl_3$, 100 MHz): δ 15.3, 20.5, 49.2, 112.1, 113.3, 117.5, 144.6, 146.2, 152.3, 189.8 (C═O). Anal. Calcd for $C_{10}H_{12}O_2$: C, 73.15; H, 7.37. Found: C, 72.85; H, 7.64.

(*E*)-1-(2-Thienyl)-2-methylpent-3-en-1-one (3e): pale yellow oil, bp 80 °C (5.0 mmHg, Kugelrohr). IR (neat): 1659.8 cm^{-1} ($\nu_{C=O}$). ^1H NMR ($CDCl_3$, 400 MHz): δ 1.31 (d, 3H, CH_3, J = 6.84 Hz), 1.67 (d, 3H, CH_3, J = 5.37 Hz), 3.92 (dq, 1H, CH, J = 7.32, 6.84 Hz), 5.59 (dd, 1H, CH═, J = 16.85, 7.32 Hz), 5.65 (dq, 1H, CH═, J = 16.85, 5.37 Hz), 7.11−7.13 (m, 1H, thienyl), 7.61−7.62 (m, 1H, thienyl), 7.73−7.76 (m, 1H, thienyl). ^{13}C NMR ($CDCl_3$, 100 MHz): δ 13.1, 17.5, 46.4, 125.5, 128.0, 131.8, 132.0, 133.5, 143.7, 194.5 (C═O). Exact mass: calcd for $C_{10}H_{12}OS$, 180.0609; found, 180.0608. Anal. Calcd for $C_{10}H_{12}OS$: C, 66.63; H, 6.71. Found (for a 56:44 mixture of **3e** and **3e′**): C, 66.69; H, 6.75.

(*Z*)-1-(2-Thienyl)-2-methylpent-3-en-1-one (3e′): pale yellow oil, bp 80 °C (5.0 mmHg, Kugelrohr). IR (neat): 1659.8 cm^{-1} ($\nu_{C=O}$). ^1H NMR ($CDCl_3$, 400 MHz): δ 1.29 (d, 3H, CH_3, J = 6.84 Hz), 1.77 (d, 3H, CH_3, J = 5.37 Hz), 4.14 (dq, 1H, CH, J = 8.79, 6.84 Hz), 5.56 (dd, 1H, CH═, J = 9.28, 8.79 Hz), 5.57 (dq, 1H, CH═, J = 9.28, 5.37), 7.11−7.13 (m, 1H, thienyl), 7.61−7.62 (m, 1H, thienyl), 7.73−7.76 (m, 1H, thienyl). ^{13}C NMR ($CDCl_3$, 100 MHz): δ 11.7, 17.9, 41.6, 117.6, 127.5, 130.5, 130.8, 133.5, 143.6, 194.7 (C═O).

Acknowledgment. This work was supported in part by a Grant-in-Aid for Scientific Research from the Ministry of Education, Science, Sports, and Culture of Japan. T.K. acknowledges financial support from the Kurata Foundation. Y.M. also appreciates Research Fellowships from the Japan Society for the Promotion of Science for Young Scientists.

OM971084W

Additions and Corrections

Vol. 17, 1998

Judith C. Gallucci, Olivier Gobley, Florence Zaegel, Philippe Meunier, Bernard Gautheron, Holger Lange, Rolf Gleiter, Natasha Kozmina, and Leo A. Paquette*: Solid-State Structural Analysis of the "Naked" Isodicyclopentadienide Anion.

Page 112. The space groups for the Na(isodiCp)(15-crown-5) and the [K-cryptand(2.2.2)]$^+$(isodiCp)$^-$ structures were incorrectly reported in refs 13 and 14 as $P1$. Both space groups are $P\bar{1}$.

OM9802515

S0276-7333(98)00251-9
Published on Web 04/22/1998