

FACILE PREPARATION OF 2,6-DIMETHYL-2,6-TETRAHYDROPYRANCARBO-LACTONE,
 A VERSATILE INTERMEDIATE FOR THE SYNTHESIS OF
 (±)-FRONTALIN, (±)-CINENIC ACID, AND (±)-LINALOYL OXIDE

Masanori Utaka, Sadao Tsuboi, Hiroshi Makino, Yukito Oota, and Akira Takeda
 Department of Synthetic Chemistry, School of Engineering
 Okayama University, Tsushima, Okayama 700, Japan

2,6-Dimethylcyclohexanone has been converted to 2,6-dimethyl-2,6-tetrahydro-
 pyrancarbolactone (1) via 2,6-dimethyl-2,6-dihydroxycyclohexanone by base-
 catalyzed oxygenation. This lactone 1 can be used as a key intermediate for the
 syntheses of the title natural products in racemic forms.

