benzothiophene derivatives

R 0100 10 - 158 Synthesis and Isomerization of the Novel Heterotriptycene, 8-Hydroxy-2, 4,5',6-tetramethyl-4,8-dihydro-4,8(3',2')thiophenobenzo-(1,2-b:5,4-b') dithiophene. — The title compound (VI), a derivative of the hitherto unknown heterotriptycene (VII), is synthesized for the first time. (VI) decomposes near its melting point about 203°C to give the isomeric ketone (V) which is obtained as well from (VI) either under basic or acidic (treatment with D2SO4) conditions and by heating in o- dichlorobenzene. — (ISHII, A.; KODACHI, M.; NAKAYAMA, J.; HOSHINO, M.; J. Chem. Soc., Chem. Commun. (1991) 11, 751-752; Dep. Chem., Fac. Sci., Saitama Univ., Urawa, Saitama 338, Japan; EN)

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{S} \end{array} \begin{array}{c} \text{1. Et-0} \\ \text{Et-0} \end{array} \begin{array}{c} \text{(II)} \text{ , BuLi, Et}_2\text{O. } -78^{\circ}\text{C} \\ \text{Me} \\ \text{2. HClO}_4, \text{ Ac}_2\text{D} \\ \text{3. MeMgI (III)} \text{ , Et}_2\text{O, 0°C} \end{array} \begin{array}{c} \text{Me} \\ \text{IV 18\% (based on II)} \end{array}$$

1.
$$\mathrm{Br_2}$$
, $\mathrm{Ac-OH}$, $\mathrm{CCI_4}$

IV

2. $\mathrm{Et-O}$
Et-O

(II) , tBuLi , THF , $-78^{\circ}\mathrm{C}$

V 13%