The structure of Amphenone B as being (III) was also indicated by the fact that an iodoform reaction yielded 20–25% iodoform as determined spectrophotometrically.[9] The ultraviolet spectrum of Amphenone B showed the absence of a benzoyl-type carbonyl group.

A comparison of the ultraviolet spectra of the pinacolones obtained by rearrangement of 3,4-bis-(*p*-aminophenyl)-3,4-hexanediol[2] and 2,3-bis-*p*-dimethylaminophenyl)-2,3-butanediol[10] indicate these pinacolones to be 4,4-bis(*p*-aminophenyl)-hexanone-3 and 3,3-bis(*p*-dimethylaminophenyl)-butanone-2.

We are grateful to Mr. L. Dorfman and his staff for the microanalyses and the spectral data.

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(−)-Menthoxyacetic Esters of the *Cis* and *Trans* Forms of *Meso*-3,4-diphenylcyclopentanol

Sir:

We wish to report the synthesis of the (−)-menthoxyacetic esters of the *cis* and *trans* forms of *meso*-3,4-diphenylcyclopentanol. The *cis* form was prepared by the reaction of the *cis* form of *meso*-3,4-diphenylcyclopentanol[1] with (−)-menthoxyacetyl chloride in pyridine. After purification by chromatographic adsorption and repeated crystallization from 95% ethanol and from *n*-pentane, it melted at 66.5–67.0°; $[\alpha]_D^{25}$ − 49.3° ± 0.2°, c = 0.035 g. per cc. in methyl ethyl ketone.

Anal. Calcd. for $C_{29}H_{38}O_3$: C, 80.14; H, 8.81. Found: C, 80.10, 80.29; H, 8.80, 8.85.

The *trans* form was prepared by the reaction of the *p*-toluenesulfonyl ester of the *cis* alcohol with the sodium salt of (−)-menthoxyacetic acid. After exhaustive purification it melted at 76.5–77.0°; $[\alpha]_D^{25}$ − 55.1° ± 0.2°, c = 0.035 g. per cc. in methyl ethyl ketone.

Anal. Calcd. for $C_{29}H_{38}O_3$: C, 80.14; H, 8.81. Found: C, 80.14, 80.19; H, 8.86, 8.75.

The difference of 5.8° in the rotation of the *cis* and *trans* forms of the menthyl esters confirms the view that diastereoisomers of this type may be expected to differ in optical rotation.[2]

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