

LETTER TO THE EDITOR

Melting Points of Several Enantiomeric Glycerides

Sir: In the preparation of substrates for lipase specificity studies several enantiomeric mono, di and triglycerides have been synthesized (Quinn, J.G., Ph.D. Thesis, University of Connecticut, Storrs, 1967). The melting points of three of these glycerides as well as one specific rotation have not yet been described in the literature. Since this information may be useful to other lipid chemists, these values are herein reported.

These glycerides were synthesized and purified essentially as described by Quinn, J.G., et al., *JAOCs* 44:439-442, 1967. The monoglyceride, *sn*-glyceryl-3-oleate, mp 22.5-23.5 C, $[\alpha]_D^{22}$ -4.63° (c, 4.0 in pyridine) was prepared from 1,2-isopropylidene *sn*-glycerol (Baer, E., "Biochemical Preparations," Vol. 2, Edited by E.G. Ball, John Wiley and Sons, Inc., 1952, p. 31-38) and oleoyl chloride.

Diglyceride was prepared by acylating *sn*-glyceryl-3-palmitate with oleoyl chloride (*sn*-glyceryl-1-oleate-3-palmitate, mp 48.5-48.9 C). The triglyceride, *sn*-glyceryl-1-2-dioleate-3-palmitate, mp 18.5-19.0 C, was iso-

lated as a by-product from the synthesis of the above diglyceride.

The purity of the glycerides was determined by thin layer chromatography and their fatty acid composition by gas liquid chromatography (Quinn, J.G., Ph.D. Thesis, 1967). A stereospecific analysis (Sampugna, J., and R.G. Jensen, *Lipids* 3:519-529, 1968) was used to characterize the diglyceride and the triglyceride subjected to pancreatic lipolysis (Jensen, et al., *Lipids* 5:580-581, 1970). On the basis of the methods employed, the purity and correctness of position is estimated to approach 99%.

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[Received June 14, 1971]

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Page numbers were omitted from the following references in the August issue of *LIPIDS*:

- P. 530, 25. de la Roche, I.A., E.J. Weber and D.E. Alexander, *Ibid.* 6:537-540 (1971).
- P. 536, 1. Weber, E.J., I.A. de la Roche and D.E. Alexander, *Lipids* 6:525-530 (1971).
2. de la Roche, I.A., E.J. Weber and D.E. Alexander, *Ibid.* 6:537-540 (1971).
- P. 540, 1. Weber, E.J., I.A. de la Roche and D.E. Alexander, *Lipids* 6:525-530 (1971).
2. de la Roche, I.A., E.J. Weber and D.E. Alexander, *Ibid.* 6:531-536 (1971).
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