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Crystal data for *N*-n-butyloctadecanamide. By DAVID A. LUTZ, *Eastern Utilization Research and Development Division, Agricultural Research Service, U.S. Department of Agriculture Philadelphia, Pa. 19118, U.S.A.*

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Crystals of *N*-n-butyloctadecanamide are monoclinic, space group $P2_1/a$, with $a=9.06$, $b=4.89$, $c=51.78$ Å, $\beta=91^\circ 10'$, $Z=4$.

The sample of *N*-n-butyl octadecanamide, $C_{22}H_{45}NO$, used in this study was prepared and purified by E. S. Rothman of this Laboratory. The compound was prepared by low-temperature aminolysis of methyl octadecanoate (of better than 98% purity as shown by gas-liquid chromatography) catalyzed by sodium methoxide (Jordan & Port, 1961), and was further purified by two recrystallizations from benzene (m.p. 81.3 – 82.0°C). Single crystals were produced by slowly cooling a warm, saturated toluene solution to room temperature. Cell constants were determined from various oscillation and Weissenberg photographs; the long spacing as obtained from a powder tracing, 51.77 Å, was taken as $c \sin \beta$. The radiation used was $\text{Cu } K\alpha$ ($\lambda=1.5418$ Å). The density was measured by flotation in methanol–water.

The space group was determined from the systematic extinctions $h0l$ with h odd and $0k0$ with k odd. The crystal data are as follows: $a=9.06 \pm 0.02$, $b=4.89 \pm 0.02$, $c=51.78 \pm 0.04$ Å, $\beta=91^\circ 10' \pm 10'$, $U=2294$ Å³, $Z=4$, $D_x=0.983$ g.cm⁻³, $D_m=0.978$ g.cm⁻³. The space group is $P2_1/a$.

No further work on this compound is contemplated at present.

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Reference

JORDAN, E. F., JR., & PORT, W. S. (1961), *J. Amer. Oil Chem. Soc.* **38**, 600.

Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. The notes (in duplicate) should be sent to the General Secretary of the International Union of Crystallography (G. Boom, Laboratorium voor Technische Natuurkunde der Rijksuniversiteit, Westersingel 34, Groningen, The Netherlands). Publication of an item in a particular issue cannot be guaranteed unless the draft is received 8 weeks before the date of publication.

Arthur Lindo Patterson. Crystallographers all over the world will be sad to hear of the death of Dr A. L. Patterson on 6 November 1966. A full obituary will be published in due course.