

RHAMNACEAE

CONSTITUENTS OF THE LEAVES AND ROOT BARK OF
*CEANOOTHUS VELUTINUS*A. R. CRAIG, K. C. DAS, WENDY J. FARMER, YU-YIN LIN, WAI-KUAN WOO and
BORIS WEINSTEIN

Department of Chemistry, University of Washington, Seattle, Washington 98105, U.S.A.

(Received 31 July 1970)

Plant. *Ceanothus velutinus*. Trivial Name: Snowbrush.¹*Uses.* Ornamental.*Source.* Lake Kachess Dam Road, Snoqualmie Pass, Washington, U.S.A.*Previous work.* Leaves.² Root-bark.³*Leaves.* Ground leaves (1.6 kg) were extracted with light petroleum (30–60°), followed by chromatography on silicic acid. Nonacosane, 1-hexacosanol, velutin (4',5-dihydroxy-3',7-dimethoxyflavone),⁴ and cinnamic acid were isolated and identified by spectral and physical measurements.*Root Bark.* Ground root-bark (2.6 kg) was extracted with light petroleum (30–60°). Concentration of the liquid afforded betulinic acid, ceanothenic acid, and β -sitosterol. Structural assignments were confirmed by spectra and physical comparisons.*Acknowledgements*—This investigation was supported by Public Health Service Grant No. UI 00697 from the National Center for Urban and Industrial Health. We thank Professor P. de Mayo for a specimen of ceanothenic acid.¹ J. F. FRANKLIN and C. T. DYRNES, *Vegetation of Oregon and Washington*, p. 98, U.S.D.A., Forest Service Research Paper PNW-80, Portland, Oregon (1969).² L. W. RICHARDS and E. V. LYNN, *J. Am. Pharm. Assoc.* **23**, 332 (1934).³ C. W. ROSCOE, unpublished thesis, College of Pharmacy, University of Washington (1958).⁴ K. C. DAS, W. J. FARMER and B. WEINSTEIN, *J. Org. Chem.* **35**, 3589 (1970).TRITERPENOIDS FROM *DISCARIA LONGISPINA*
AND *COLLETIA PARADOXA*

V. M. MERKUZA, O. A. MASCARETTI, R. CROHARE and E. A. RÚVEDA

Departamento de Química Orgánica, Facultad de Farmacia y Bioquímica, Junin 956, Buenos Aires,
Argentina

(Received 31 August 1970)

Abstract—Ceanothic and betulinic acids have been isolated from *Discaria longispina*. From *Colletia paradoxa* only ceanothic acid was isolated.