

POLYPHENOLIC COMPOUNDS OF *Epilobium hirsutum*

M. M. Mukhamed'yarova and T. K. Chumbalov

UDC 547.972

In a study of the chemical composition of the epigeal part of *Epilobium hirsutum* (hairy willowweed), family Onagraceae, by two-dimensional chromatography on paper in the solvent systems BAW (4:1:5) and 15% acetic acid, phenolic acids, hydrolyzable tanning substances, and flavonoid compounds have been detected.

From the ether-soluble and ethyl-acetate-soluble fractions of a methanolic extract by chromatography on polyamide and silica gel and preparative paper chromatography we have isolated five individual substances: three acids and two glycosides.

From their melting points, their equivalent weights, and also the results of a comparison with authentic samples, the phenolic acids investigated have been identified as gallic, 3-methoxygallic, and protocatechuic acids.

Hyperoside was identified on the basis of the physicochemical properties of the cleavage products (alkaline fusion, acid and enzymatic hydrolysis) and UV and IR spectroscopy.

S. M. Kirov Kazakh State University. Translated from *Khimiya Prirodnikh Soedinenii*, No. 2, p. 281, March-April, 1975. Original article submitted July 15, 1974.

©1976 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise, without written permission of the publisher. A copy of this article is available from the publisher for \$15.00.