

In a chemical study of the leaves, flowers, and fruit of *Sorbus quercifolia* we have established that it contains flavonoids and hydroxycinnamic acids.

The raw material was extracted with 96% ethanol and the extracts were purified by the method described previously [1]. The compounds obtained were separated by fractionation of the evaporated ethanolic extracts and by column chromatography on a polyamide sorbent. The eluting solutions were distilled water and aqueous ethanol of various concentrations.

Six individual substances were isolated from the leaves of *S. quercifolia* and four and five, respectively, from the flowers and fruit.

On the basis of their physicochemical properties and UV and IR spectra [2, 3] and also the products of their transformations, the substances isolated from the leaves were characterized as quercetin 3- β -gentiobioside, $C_{26}H_{30}O_{17}$ (I), mp 182-184°C, quercetin 3- β -D-galactopyranoside, $C_{21}H_{20}O_{12}$ (II), mp 233-235°C, quercetin 3-rutinoside, $C_{21}H_{30}O_{16}$ (III), mp 186-187°C, apigenin 7-glucoside, $C_{21}H_{20}O_{10}$ (IV), mp 253-255°C, caffeic acid, $C_9H_8O_4$ (V), mp 194-196°C, and 3-O-caffeoyl-D-quinic (chlorogenic) acid, $C_{16}H_{18}O_9$ (VI) with mp 202-204°C, $[\alpha]_D^{20} - 32.0^\circ C$.

The compounds isolated from the leaves were identified as substances I, II, III, and IV.

The fruit was found to contain rutin, hyperin, and chlorogenic, caffeic, and neochlorogenic acids.

LITERATURE CITED

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