

## ONAGRACEAE

FLAVONOL-GLYCOSIDES IN *OENOTHERA HOOKERI*

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**Key Word Index**—*Oenothera hookeri*; Onagraceae; quercetin and kaempferol glycosides.

**Plant and source.** *Oenothera hookeri* T. et G. Plants were cultivated from seeds which were collected by Dr. Chrometzka\* from plants in the Botanical Garden, Saarbrücken. A voucher specimen is deposited in the Herbarium Zinsmeister, Botanisches Institut der Universität des Saarlandes, Saarbrücken. **Previous work.** On different species of *Oenothera*,<sup>1,2</sup> on *O. biennis*,<sup>3</sup> and on *O. lavandulaefolia*.<sup>4</sup>

**Plant part examined.** Leaves of rosettes. 1.5 g of air-dried material were extracted as described earlier.<sup>2</sup> The flavonol glycosides were separated by two dimensional TLC on microcrystalline cellulose (Avicel) in: *sec*-BuOH-HOAc-H<sub>2</sub>O, 14:1:5 and 6% HOAc. They were isolated by elution of the adsorbent with 80% MeOH. Identification of the glycosides, their aglycones and sugars, was done using the following methods: *R<sub>f</sub>*s in several different solvents on cellulose, silica gel G, kieselguhr G; fluorescence in the UV with and without NH<sub>3</sub> vapour; colour-reactions<sup>5</sup> with Naturstoffreagenz A,<sup>6</sup> AgNO<sub>3</sub>-NH<sub>3</sub>, AlCl<sub>3</sub>, Pb(CH<sub>3</sub>COO)<sub>2</sub>-Pb(OH)<sub>2</sub>, ZrOCl<sub>2</sub>, aniline phthalate, anisaldehyde; hydrolysis;<sup>7</sup> UV spectra in MeOH and MeOH + NaOMe;<sup>8</sup> comparison with authentic samples and co-chromatography.

**Compounds isolated.** Quercetin-7-*O*-rhamnoside, quercetin-3-*O*-glucoside, quercetin-3-*O*-galactoside (hyperoside), quercetin-3-rhamnoglucoside (rutin), quercetin-3-arabinoside, a kaempferol galactoside and two minor not yet completely identified flavonol glycosides, probably quercetin glycosides.

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