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XANTHININ AND β -SITOSTEROL FROM *XANTHIUM ORIENTALE*

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Plant. Xanthium orientale.

*Uses. Medicinal.*¹

Previous work. Preliminary screening.² On other species *X. pennsylvanicum*,^{3,4} *X. italicum*, *X. strumarium*,^{6,7} and *X. occidentale*.⁸

Aereal Part. Extr. petroleum chromatographed on silica by inverted column method.⁹
Triacontanol, $C_{30}H_{62}O$, m.p., mixed m.p., IR, NMR

β -sitosterol, L.B. test, m.p. $[\alpha]_D$ IR, NMR, mixed m.p. Co-TLC. Acetate, m.p., mixed m.p. $[\alpha]_D$, IR, NMR, mixed m.p., co-TLC.

Xanthinin. $C_{17}H_{22}O_5$, m.p. 121–122°, $[\alpha]_D$, $[\alpha]_{578}$ –22.6°, $[\alpha]_{546}$ –25.7°; $[\alpha]_{436}$ –44.2°; $[\alpha]_{365}$ –68.7°; $[\alpha]_{316}$ –32.2°; NMR $\bar{\nu}$ 1765 (five membered lactone), 1730 (acetoxy group), 1720 cm^{-1} (ketonic group). Mixed m.p., co-TLC. Diacetoxy derivative, $C_{15}H_{18}O_3$, m.p., IR, UV, $[\alpha]_D$.

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