FLAVONOIDS OF THE LEAVES OF Thea

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From the leaves of Thea (tea) we have isolated five individual flavonoids denoted provisionally by the letters A, B, C, D, and E. These flavonoids have been identified by mixed melting points, paper chromatography, specific color reactions, and the results of IR and UV spectroscopy with complex-forming and ionizing additives, the products of alkaline, enzymatic (rhamnodiastase), and alkaline hydrolysis, and the values of the specific rotation and the calculated values of $[M]_D^{20} \cdot Kp$. On the basis of the results obtained and literature information, we have characterized the flavonoids as kaempferol [1], quercetin [1], myricetin [2], hyperoside [3], and quercimyritrin [4]. This is the first time that hyperoside and quercimyritrin have been found in this plant.

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