The essential oil isolated by hydrodistillation from leaves of Croton sylvaticus Hochst (0.14 %) was analyzed by GC and GC-MS. Over 52 components, constituting about 86.3 % of the oil, were separated. The major constituents were \( \beta \)-caryophyllene oxide (35.1 %) and \( \alpha \)-humulen1,2-epoxide (12 %). The petroleum ether extract of the stem bark yielded (-)-hardwickic acid, \( \beta \)-sitosterol, stigmasterol and ent-8b-15,labd-13en( E) –dil. 