The essential oil isolated by hydrodistillation from the stem-bark of Synadenium compactum N.E. Dr. var, compactum (0.2 %) was analysed by GC and GC-MS. Fifty five compound constituting about 89.9 % of the oil were separated from the oil and many of them were identified. The major constituents were a- and b-selinene (29.6 % and 19.3 %. respectively). The petroleum spirit extract of the stem bark yielded friedelinol, epifriedelinol and friedelin.