**African butter tree *(Pentadesma butyracea)* seed **

**Total fat content -42.3±0.5% dry weight basis**

**Total phenolic content -56.44±4.28 mg GAE/g dry weight basis**

**Fatty acid profile from total fat - African butter tree *(Pentadesma butyracea)* seed- by GC method-**

|  |  |
| --- | --- |
| **Fatty acid name** | **%** |
| **Palmitic** | **1.67±0.02** |
| **Palmitoleic** | **0.04±0.01** |
| **Heptadecanoic acid** | **0.12±0.00** |
| **Stearic** | **39.02±1.20** |
| **Oleic** | **58.24±1.21** |
| **Linoleic** | **0.68±0.02** |
| **Linolenic** | **0.09±0.07** |
| **Eicosanoic acid** | **0.09±.03** |

**Physicochemical properties of African butter tree seed**

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| **Saponification value (mg KOH/g)** | **201.1 ±0.1** |
| **Ester value (mg KOH/g)** | **192.6** |
| **Slip point (0C)** | **37.0** |
| **Smoking point (0C)** | **216±0.6** |
| **Flash point (0C)** | **280.0** |