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Constituents of essential oils from the leaf and flower of *Plumeria alba* grown in Nigeria

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Abstract

This paper reports on the compounds identified in the leaf and flower essential oils obtained by hydrodistillation of *Plumeria alba* L. (Apocynaceae) grown in Nigeria. The chemical analysis of the essential oils was achieved by means of gas chromatography (GC) and gas chromatography coupled with mass spectrometry (GC-MS). Linalool (13.2%), n-nonanal (9.6%), phenyl acetaldehyde (8.5%), neryl acetone (5.3%) and n-decanal (5.1%) were the main constituents of the leaf oil. On the other hand, the flower oil comprised mainly of limonene (9.1%), linalool (7.9%), α -cedrene (8.0%), caryophyllene oxide (7.9%) and (E, E)- α -farnesene (6.6%). This is the first report on the essential oil constituents of *P. alba*.

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