

Tropane and Pyrrolidine Alkaloids from *Convolvulus lanatus* Vahl

Assem El-Shazly^a and Michael Wink^{b,*}

^a Department of Pharmacognosy, Faculty of Pharmacy, Zagazig University, Zagazig 44519, Egypt

^b Institut für Pharmazie und Molekulare Biotechnologie, Im Neuenheimer Feld 364, D-69120 Heidelberg, Germany. E-mail: wink@uni-hd.de

* Author for correspondence and reprint requests

Z. Naturforsch. **63c**, 321–325 (2008); received December 18, 2007

The alkaloid composition of *Convolvulus lanatus* was investigated by GLC and GLC-MS. Altogether, thirteen tropane and pyrrolidine alkaloids were identified on the basis of mass spectral data and/or Kovats retention indices. Twelve of them have been recorded for the first time in this plant and some of these alkaloids were identified for the first time in the genus *Convolvulus*. Cuscohygrine is the major constituent. Qualitative and quantitative differences of root and aerial parts are discussed.

Key words: *Convolvulus lanatus*, Tropinone, Pyrrolidine Alkaloids