

PP5. On the subcritical extraction of *Rosa damascena* Mill.

Ana Dobрева^{1*}, Ivayla Dincheva², Nenko Nenov³

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Subcritical extraction of *Rosa damascena* Mill. has been performed with Freon R143a [1]. The pressure and duration of the process have been studied to obtain the highest possible yield. It was found that a short-time triple extraction at low pressures of 5-6 bar resulted in the highest yield—0.151%. The chemical composition of the product revealed a high terpene/scent content: β -phenylethyl alcohol (25.6-54.1%), citronellol (1.9-2.3%), geraniol (1.2-3.8%) and nerol (1.8-2.9%). The distribution of paraffins' content was: nonadecane (2.7-4.9%), nonadecene (3.0-5.6%), eicosane (4.4-9.4%) and heneicosane (4.4-9.8%). The deviations in the constituents of the day product and the year batch production have been discussed. The yield and composition are compared with other rose aromatic products [2,3].

References:

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¹Institute for Roses and Aromatic Plants, Agriculture Academy, Kazanlak, Bulgaria; ²AgroBioInstitute, Agriculture Academy, Sofia, Bulgaria; ³University of Food Technologies, Plovdiv, Bulgaria.

*Corresponding author: anadobreva@abv.bg