The essential oils from two Chinese endemic *Meconopsis* species, i.e., *M. punicea* and *M. delavayi*, were analyzed by using GC-MS for the first time. The major constituents were hexadecanoic acid (16.8%), 1,2-dimethyl naphthalene (11.4%), 1,4-dimethyl naphthalene (6.6%), 1,3-dimethyl-5-ethyl naphthalene (5.9%), and 3-methyl biphenyl (5.6%) for *M. punicea*, and hexadecanoic acid (9.9%), 1,2-dimethyl naphthalene (7.9%), 1,3-dimethyl-5-ethyl naphthalene (6.2%), tetradecane (5.9%), and hexyl cinnamaldehyde (5.5%) for *M. delavayi*.

Key words: *Meconopsis punicea*, *Meconopsis delavayi*, Essential Oil