

Title Effects of 1-MCP (1-Methylcyclopropene) and BA (Benzyl adenine) on the vase life of Iris (*Iris Sanguinea*)

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Keyword 1-MCP; Benzyl adenine; Iris

Abstract

Days of flowering was about 1 day shorter and the percentage of unflowering was about 10~30% lower than those of control by the 1-MCP treatment. The 1-MCP (1-methyl-cyclopropene) treatment was not effective on vase life of Iris at any concentrations. The BA treatment extended 1.6~2 days of the vase life and decreased the percentage of unflowering from 33.3% (control) to 6.7% (120 mg.L⁻¹). Of all the results, BA 80 mg.L⁻¹ hrs treatment showed the most extended vase life and followed by BA 40 mg.L⁻¹.12 hrs. 1-MCP 250 mg.L⁻¹.12 hrs and 1-MCP 250 mg.L⁻¹+BA 80 mg.L⁻¹.12 hrs showed 0% of the percentage of unflowering. The amount of water absorption of Iris was not significantly affected by either of 1-MCP and BA treatments and was not related to the vase life.