

### **Abstract**

Orchid flowers (*Dendrobium Sonia* 'Bom # 17') were fumigated with 1-MCP at the concentration of 0, 100, 200, and 400 ppb for 12 hrs at 25°C and transferred to store at 13°C for 2 days as the commercial storage condition. The flowers were then held at room temperature (25°C) for 27 days in distilled water and holding solution contained with 4% (w/v) glucose and 200 mg/L (w/v) 8-HQS. 1-MCP treatments showed the decrease of flower drop throughout vase life of orchids. Orchid flowers in holding solution appeared a better flower quality than untreated flowers. Water uptake and weight loss of flowers in holding solution was higher than that of control. Both 1-MCP treatment and holding solution did not appear to have a negative effect on petal wilting, opened flower bud, and vase life of orchid flower.