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EFFECTS OF FOLIAR APPLIED SILIXOL ON THE ENHANCEMENT OF INDUCED RESISTANCE TO QUALITY AND YIELD OF TOMATO (SOLANUM LYCOPERSICUM)

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A field experiment on tomato (*Solanum lycopersicum*) comprising eight treatment of silixol (stabilized silicic acid) was conducted at the Main Vegetable Research Station, Anand Agricultural University, Anand, during rabi 2009-10. The silixol was sprayed at different time of interval in tomato variety AT-3. The treatment T₂ and T₇ gave best response to increase the plant height. While, fruits per plant, fruits length, fruits weight and fruit yield were increased by treatment T₂. The silixol also gave beneficial effect to reduce the fruit borer and leaf curl damage in treatment T₂ in tomato plant at 60 DAS. The moisture content had no any adverse effect of silixol. The lycopene and ascorbic acid contents were increased in treatment T₅. Thus, overall it can be concluded that the fruit yield and its quality of tomato gave better response with foliar application of silixol with treatment T₂.