

Mefentrifluconazole – A New Broad-Spectrum Demethylation Inhibitor for Use on Row and Specialty Crops.

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Mefentrifluconazole (Revysol®) is a new fungicide active ingredient by BASF Corporation pending registration in the United States for control of key fungal diseases of pome fruits, stone fruits, tree nuts, grapes, potato, corn, soybean and other crops. Revysol fungicide, as classified by FRAC (Fungicide Resistance Action Committee), is a Group 3 demethylation inhibitor. The five-member ring of Revysol fungicide is attached to a flexible isopropanol link, forming an isopropanol azole structure. This unique chemical structure allows the molecule to easily assume different conformations, which has been shown to improve efficacy of this molecule on a variety of fungal classes including the Deuteromycetes, Ascomycetes and the Basidiomycetes, as well as some shifted strains. Results of studies measuring uptake, translocation, and intrinsic activity will be presented.