

Product Data Sheet

Product Name: Myclobutanil-d9

Cat. No.: GC91129

Chemical Properties

Cas. No.

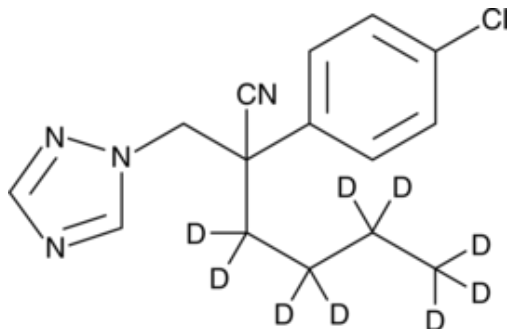
Formula $C_{15}H_8D_9ClN_4$ M.Wt 297.8

Solubility Chloroform: slightly soluble, DMSO: slightly soluble, Methanol: slightly soluble
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Myclobutanil-d₉ is intended for use as an internal standard for the quantification of myclobutanil by GC- or LC-MS. Myclobutanil is a triazole fungicide.¹ It is active against the plant pathogenic fungus *U. avenae* (ED₅₀ = 45 mg/ml) that is sensitive to the triazole fungicide triadimefon but not four triadimefon-resistant strains (ED₅₀s = >1,000 mg/ml). Myclobutanil (2.52 and 45 µg/ml, respectively) reduces the number and severity of powdery mildew colonies on apple seedling leaves in greenhouse and field studies.² It reduces body weight and male breeding performance, as well as increases offspring deaths, liver and testis weight, anogenital distance, and serum testosterone levels, in male offspring when administered to pregnant rat dams at a dose of 2,000 ppm.³

Caution: Product has not been fully validated for medical applications. For research use only.

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Formulations containing myclobutanil have been used as fungicides against plant pathogenic fungi in residential, aquatic, and agricultural settings.

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