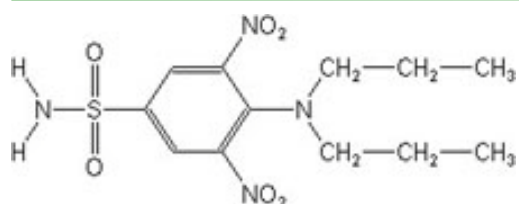




Product Information Sheet



O630

Oryzalin

Synonym: 4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide
CAS: 19044-88-3
Formula: C₁₂H₁₈N₄O₆S
Molecular Wt: 346.36

Properties

Form: Powder
Appearance: Dark Orange Crystalline
Application: Plant Growth Regulator, Herbicide: Antimitotic Agent
Solubility: Very soluble in DMSO; solubility in water is approx. 2.6 mg/L
Typical Working Concentration: 5 – 300 µM
Storage Temp: Room Temperature
Storage Temp of Stock Solution: Suggest refrigeration for short-term; freeze for longer term. No solution stability data has been reviewed.
Other Notes: Plant Tissue Culture Tested

Application Notes

Classified as a dinitroaniline herbicide, Oryzalin has been used to induce polyploidy *in vitro* for several orchid species (Miguel & Leonhardt, 2011), Rose (Kermani et al., 2003), Alocasia (Thao et al., 2003), *Miscanthus sinensis* (Petersen et al., 2003), Apple (Bouvier et al., 1994), Gerbera (Miyoshi & Asakura, 1996) and many others.

Oryzalin disrupts mitosis in the meristematic cells of seedlings by inhibiting microtubule formation via binding to plant tubulin to form a complex that is unable to polymerize into microtubules (Strachan & Hess, 1983; Morejohn et al., 1987).

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