PRODUCT INFORMATION

Toltrazuril
Item No. 20767

CAS Registry No.: 69004-03-1
Formal Name: 1-methyl-3-[3-methyl-4-
[4-[(trifluoromethyl)thio]
phenoxy]phenyl]-1,3,5-triazine-
2,4,6(1H,3H,5H)-trione
Synonyms: BAY-Vi-9142
MF: C\textsubscript{18}H\textsubscript{14}F\textsubscript{3}N\textsubscript{3}O\textsubscript{4}S
FW: 425.4
Purity: \( \geq 98\% \)
UV/Vis.: \( \lambda_{\text{max}} \): 242 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Toltrazuril is supplied as a crystalline solid. A stock solution may be made by dissolving the toltrazuril in the solvent of choice. Toltrazuril is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of toltrazuril in ethanol is approximately 1 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Toltrazuril is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, toltrazuril should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Toltrazuril has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Toltrazuril is an antiprotozoal agent that is widely used to prevent coccidia parasite infection in veterinary applications.\(^1\)\(^-\)\(^4\) The effectiveness of treatment appears to depend on the coccidian species, development stage of the parasite, and level of infection.\(^1\)\(^,\)\(^4\)

References