

Certificate of Analysis

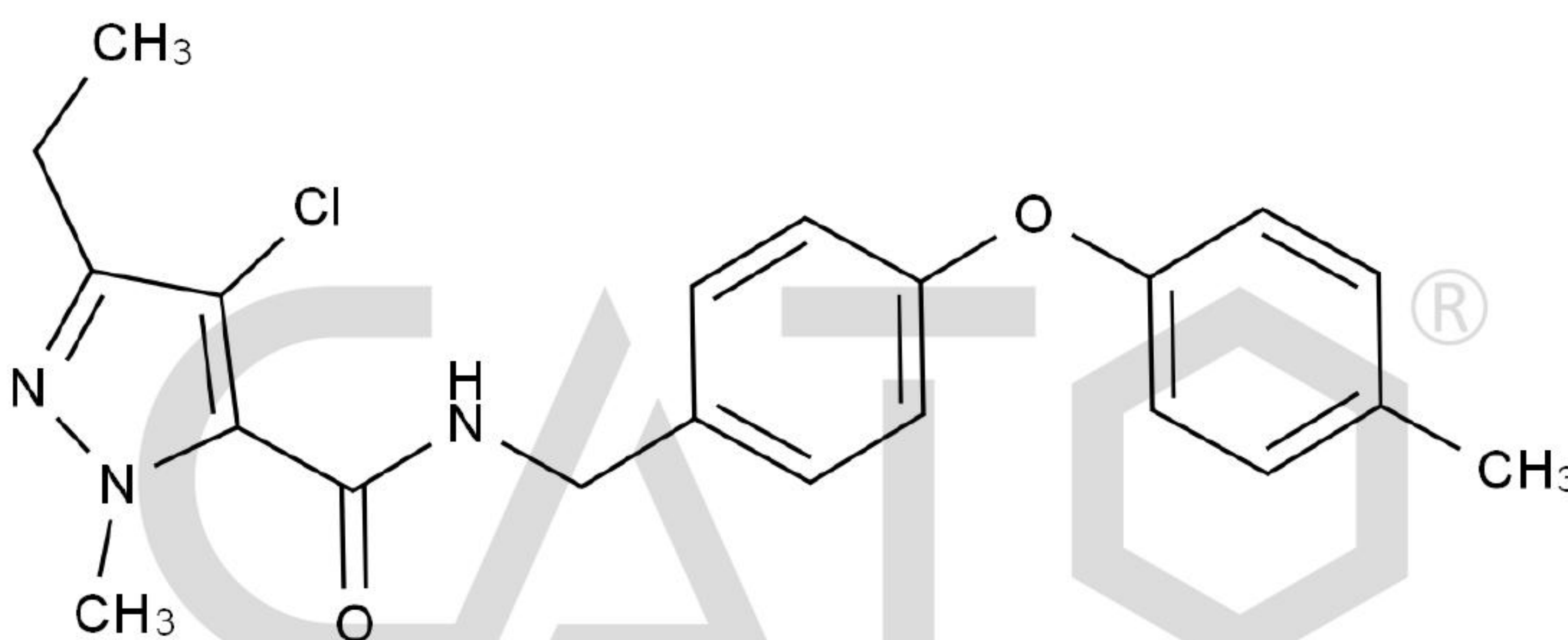
Reference Material & Standard

Product Name:	Tolfenpyrad	Catalogue Number:	CCPD100806
Synonyms:	N/A	Lot Number:	1209-RF-0100
CAS Number:	129558-76-5	Expiry Date:	Dec 11, 2031
Molecular Formula:	C ₂₁ H ₂₂ ClN ₃ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	383.87	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.540%
Water Content	Karl Fischer	0.4198%
Assay		95.1%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Dec 12, 2024

Date: Dec 12, 2024

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