

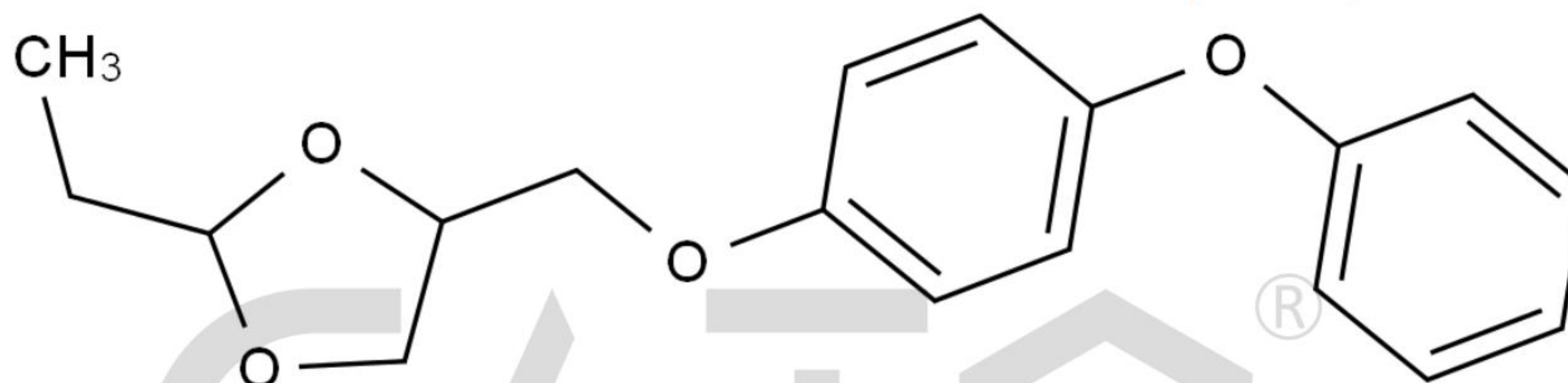
Certificate of Analysis

Reference Material & Standard

Product Name:	Diofenolan	Catalogue Number:	CCPD100335
Synonyms:	N/A	Lot Number:	0414-RB-0012
CAS Number:	63837-33-2	Expiry Date:	Sep 17, 2028
Molecular Formula:	C ₁₈ H ₂₀ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	300.35	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	HRMS&HNMR	Confirmed
Purity	HPLC	99.6957%
Loss On Drying	TGA	0.2343%
Assay		99.5%
Uncertainty		±2.0%

Comment:

- Diofenolan is mixture of isomers.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
 Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.
- 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: Sep 18, 2024

Date: Sep 19, 2024

Date: Sep 19, 2024

