

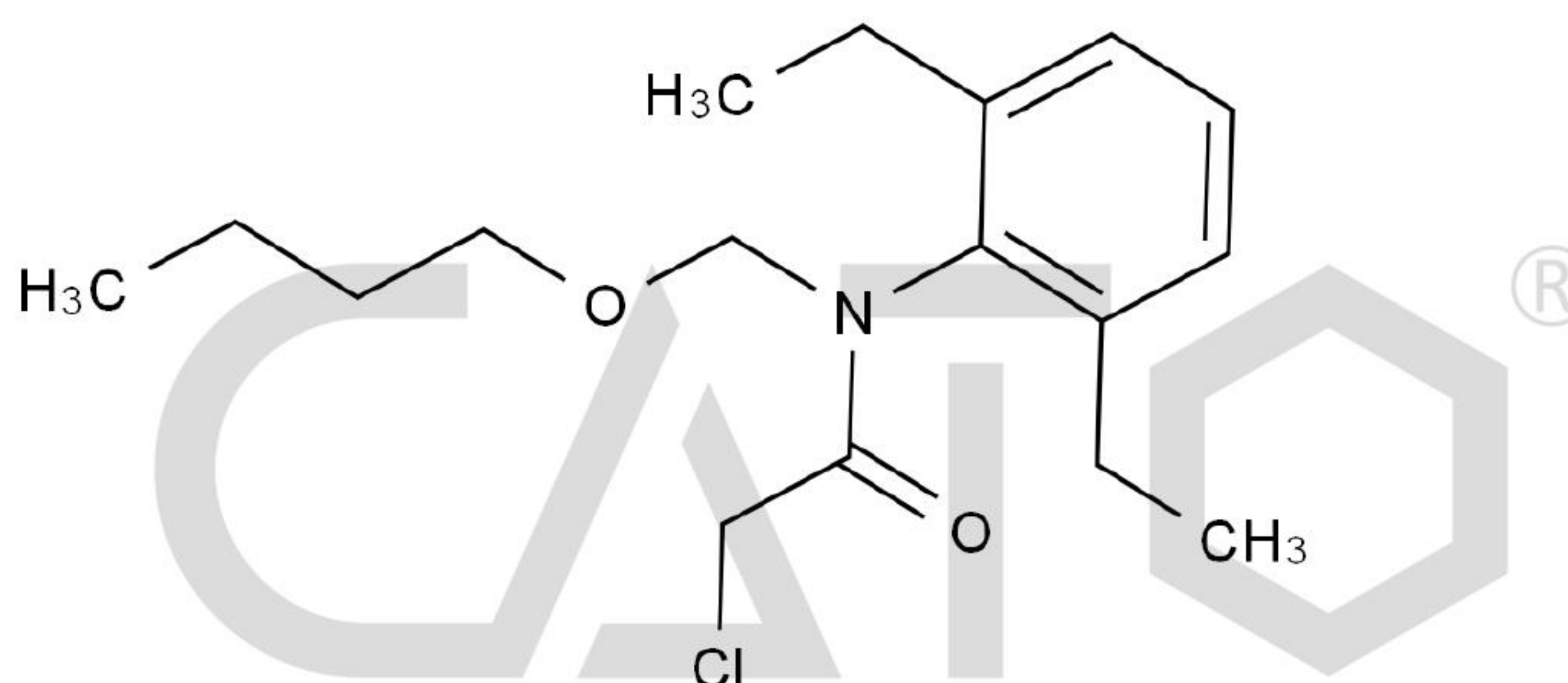
Certificate of Analysis

Reference Material & Standard

Product Name:	Butachlor	Catalogue Number:	CCPD100148
Synonyms:	N/A	Lot Number:	0616-RH-0036
CAS Number:	23184-66-9	Expiry Date:	Jun 17, 2030
Molecular Formula:	C ₁₇ H ₂₆ ClNO ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	311.85	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.504%
Loss on Drying	TGA	0.3296%
Assay		97.2%
Uncertainty		±0.5%

Comment:

1. The calculation of the mass balance 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.

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jun 18, 2026

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