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### CERTIFICATE OF ANALYSIS

Analysis Date:

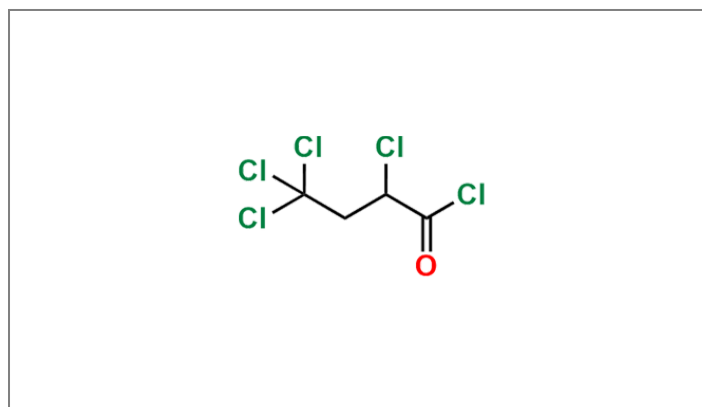
Re-test Date:

**Product Name: Permethrin Impurity 1**

#### Identification:

Chemical Name: 2,4,4,4-Tetrachlorobutanoyl chloride

Synonyms : NA  
CAS Number : 68121-36-8  
CAT Number : CP-P146012  
Molecular Formula : C<sub>4</sub>H<sub>3</sub>Cl<sub>5</sub>O  
Molecular Weight : 244.3



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.