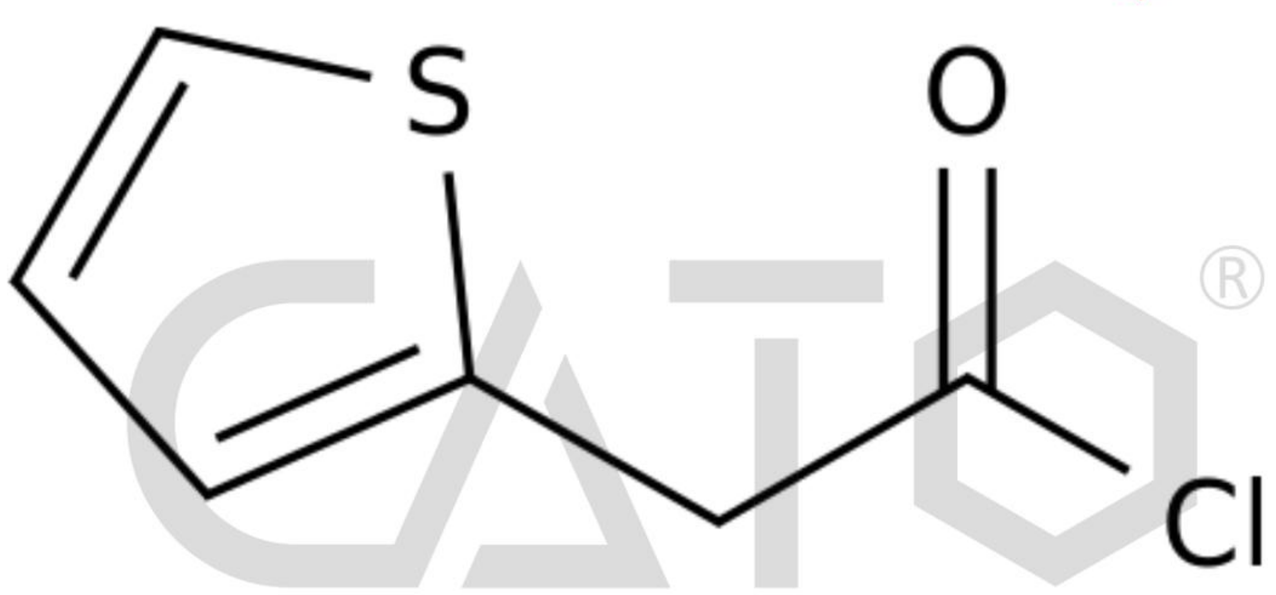
Certificate of Analysis

Reference Material & Standard

Product Name:	Articaine Impurity 12	**Catalogue Number:**	C4X-191212
Synonyms:	2-Thiopheneacetyl chloride	**Lot Number:**	0622-RH-0086
CAS Number:	39098-97-0	**Expiry Date:**	Jun 23, 2030
Molecular Formula:	C_6H_5ClOS	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	160.62	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	95.861%
Water Content	Karl Fischer	0.3983%
Assay		95.5%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content) * Purity GC (%) /100%*
Water Content is considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Jun 24, 2026

Reviewed by: Koi Date: Jun 24, 2026

Approved by General Manager: David Date: Jun 24, 2026

CATO Research Chemicals Inc.