CERTIFICATE OF ANALYSIS

OBJECTIVE: Characterization of Trans-1,3-dichloropropene, Lot ZA0-171582-092 (TSN402632), for Use as a Test/Reference/Control Substance

SUBSTANCE BEING CHARACTERIZED:
CHEMICAL NAME: Trans-1,3-dichloropropene
DESCRIPTION: Trans-1,3-dichloropropene
REFERENCE MATERIAL(S) USED: None

LOT: ZA0-171582-092

PURITY: NA   EXPIRY DATE: NA

STUDY INITIATION DATE: 17 August 2021

METHODS USED:
PURITY: Gas chromatography with flame ionization detection (GC-FID).
IDENTIFICATION and STRUCTURE: Gas chromatography-mass spectrometry (GC-MS), and proton and carbon-13 nuclear magnetic resonance (NMR) spectroscopy.

RESULTS AND CONCLUSIONS:

X   PURITY DETERMINATION
99.03% by GC-FID. No impurities were detected at ≥ 0.01 area % by GC-TCD analysis.

X   IDENTIFICATION and STRUCTURE
GC-MS results are consistent with the expected mass spectra of Trans-1,3-dichloropropene. The structure of the main component was confirmed as that of Trans-1,3-dichloropropene by GC-MS and NMR.
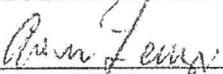
CALCULATIONS:
Area Normalized: X   Internal Standard: NA   External Standard: NA
Other (explain): NA

RECERTIFICATION DATE: 27 August 2023

(signature)
Arthur Ferruzzi, Study Director

11/10/2021
Completion Date

(signature)
Thomas DeLisle, QC Reviewer

11/09/2021
Date

(signature)
Thomas Buter, QA Reviewer

11-9-21
Date

STUDY DIRECTOR AND TESTING FACILITY ADDRESS:
1940 North Stark Road Midland, MI 48642

COMPLIANCE STATEMENT AND RAW DATA/RETAINER STORAGE:
This study was conducted in accordance with the Good Laboratory Practice Standard, 40 CFR Part 160.135 (b) unless otherwise noted.   All raw data associated with this study will be stored at The Dow Chemical Company testing facility's archives. A copy of raw data associated with this study will be maintained at Impact Analytical, Inc.
The following statistical treatments were used in this study: Means, standard deviations and relative standard deviations.

IA Project P210472
Sponsor Study ID 210063

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OCT 8 2025

BY: _(signature)_
Exp. 9/2026