

Chemical Information:

Name: 2,5-Furandione, 3-(dodecenyl)dihydro-
CAS No.: 25377-73-5 Supplier: TCI America
Tox21_ID No.: Tox21_201917 Lot No.: FGA01
NTP_CID No.: 2459 MW: 266.38 g/mol

Date of Analysis: 07 October 2016

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Acetone	2.00	Not applicable	CAS 19780-11-1 ^b	40.89	80.01
Unknown	32.36	0.86	CAS 19780-11-1	41.00	15.83
Unknown	36.80	0.68			

^a Peaks comprising $\geq 0.5\%$ of total area.

^b CAS 19780-11-1: 2-Dodecen-1-ylsuccinic anhydride. Name listed on CoA, with CAS 25377-73-5.

Note: Reference spectrum was not available for CAS 25377-73-5; difference in structures is the location of the double bond in the aliphatic chain. Although structures are similar, specified identity was not confirmed.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone (~ 100 µg/mL)
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1-µm film thickness
Carrier Gas	Helium at 1.5 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 315°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 475 amu
Injector Temperature	250°C
Injection Volume / Mode	1 µL / Splitless
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2 Build 2014

x10⁶ + TIC Scan 20161007_MSD11_002.D

