

Chemical Information:

Name: 5-Nitro-2-furanmethanediol diacetate
 CAS No.: 92-55-7 Supplier: Alfa Aesar
 Tox21_ID No.: Tox21_200727 Lot No.: I8502C
 NTP_CID No.: 4515 MW: 243.17 g/mol

Date of Analysis: 30 July 2009

Purity and Identity Results:

Peak Identity ^a	Retention Time (min)	Purity (% Total Area) ^b
5-Nitro-2-furaldehyde	10.93	11.60
5-Nitro-2-furanmethanediol diacetate	17.02	88.40

^a Container (plastic bottle) was deformed prior to analysis; impurity appears to be degradation product.

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Chloroform
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- μ m film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / Split (100:1)
Run Time	36.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008

