

Chemical Information:

Name: 1,3-Pentanediol, 2,2,4-trimethyl-
CAS No.: 144-19-4 Supplier: Sigma-Aldrich
Tox21_ID No.: Tox21_200443 Lot No.: MKAA4131
NTP_CID No.: 2780 MW: 146.23 g/mol

Date of Analysis: 30 July 2009

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
1,3-Pentanediol, 2,2,4-trimethyl-	10.79	97.66
unknown	10.86	0.62

^a 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

