

Chemical Information:

Name: 7-Methylbenzo(a)pyrene
CAS No.: 63041-77-0 Supplier: Sigma Aldrich
Tox21_ID No.: Tox21_202938 Lot No.: 14114KYV
NTP_CID No.: 6560 MW: 266.34 g/mol

Date of Analysis: 06 January 2017

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Unknown	7.73	1.83
7-Methylbenzo(a)pyrene ^b	55.54	96.63

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

^b Reference spectrum of 7-methylbenzo(a)pyrene not available; identity confirmed based on comparison to NIST reference for 10-methylbenzo(a)pyrene.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1- μ m 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	50 – 650 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / 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

x10⁷ + TIC Scan 20170106_MSD11_003.D

TIC with Blank Overlay

