

Chemical Information:

Name: dl-Tryptophan
CAS No.: 54-12-6
Tox21_ID No.: Tox21_202793
NTP_CID No.: 4824

Supplier: Sigma Aldrich
Lot No.: 066K0718
MW: 204.23 g/mol

Date of Analysis: 21 March 2017

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
dl-Tryptophan ^b	27.47	74.94
Structurally-related unknown	29.83	25.06

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

^b Major component identified as dl-tryptophan, methyl ester; likely a result of solvent and/or chromatography conditions used.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1- 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	40 – 550 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

x10⁶ + TIC Scan 20170321_MSD11_010.D

