

# Chemical Information:

Name: Ethyl-2-methyl acetoacetate Date of Analysis: 08 March 2010  
CAS No.: 609-14-3 Supplier: City Chemical Products  
Tox21\_ID No.: Tox21\_201139 Lot No.: 90H74  
NTP\_CID No.: 793 MW: 144.17 g/mol

## Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Ethyl-2-methyl acetoacetate	8.52	77.56
Butanoic acid, 2,2-dimethyl-3-oxo-, ethyl ester	8.93	21.87
unknown	9.01	0.57

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

## GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- $\mu$ 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	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Split (100:1)
Data Analysis Software	MSD ChemStation v D.03.00.SP1, and NIST Library v 2.0f, build 10/08/2008

