

# Chemical Information:

Name: Isoamyl nitrite  
CAS No.: 110-46-3  
Tox21\_ID No.: Tox21\_200983  
NTP\_CID No.: 873

Supplier: Sigma-Aldrich  
Lot No.: 1409470  
MW: 117.15 g/mol

Date of Analysis: 18 February 2010

## Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>	Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Isoamyl nitrite	3.09	92.57	unknown	3.75	1.62
unknown	3.62	2.43	unknown	10.01	0.86

<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	Not applicable (Neat)
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	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Split (500:1)
Data Analysis Software	Xcalibur ver. 1.2, and NIST Library ver. 2.0f, build 10/08/2008

