

Chemical Information:

Name: Dimethylnaphthalene
 CAS No.: 28804-88-8
 Tox21_ID No.: Tox21_202167
 NTP_CID No.: 748

Date of Analysis: 13 February 2008

Supplier: Sigma-Aldrich
 Lot No.: 0014X
 MW: 156.23 g/mol

Purity and Identity Results:

| Peak Identity | Retention Time (min) | Purity (% Total Area) ^a | Peak Identity | Retention Time (min) | Purity (% Total Area) ^a |
|---------------|----------------------|------------------------------------|---------------------|----------------------|------------------------------------|
| unknown | 5.63 | 0.63 | Dimethylnaphthalene | 33.40 | 23.47 |
| unknown | 5.73 | 0.64 | Dimethylnaphthalene | 33.66 | 34.01 |
| DMSO | 13.51 | Not applicable | Dimethylnaphthalene | 33.72 | 21.30 |

^a Peaks comprising $\geq 0.5\%$ of total area. In addition to the components reported above, 10 components ranging from 0.63 to 3.51% were observed between 30.46 and 36.34 minutes. Total isomers = 78.78% Per CoA, 77.2%, mixture of isomers

GC/MS Instrument Parameters:

| | |
|-------------------------|--|
| Instrument / Ionization | Gas Chromatograph with Mass Spectrometer / Electron Impact |
| Solvent | Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane) |
| 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 2 min |
| Source Temperature | 250°C |
| Auxiliary Temperature | 250°C |
| Scan Range | 25 – 250 amu |
| Injector Temperature | 250°C |
| Injection Volume / Mode | 2 μ L / Splitless |
| Data Analysis Software | Xcalibur, ver 1.2 and NIST Library ver 1.7, build 11/5/1999 |

