



Centers for Disease Control and Prevention

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| n-Hexane  |  |                    |  |                     |                     |
|---|--|--------------------|--|---------------------|---------------------|
| <b>Synonyms &amp; Trade Names</b> Hexane, Hexyl hydride, normal-Hexane  |  |                    |  |                     |                     |
| <b>CAS No.</b> 110-54-3   | <b>RTECS No.</b> MN9275000 ( <a href="/niosh-rtecs/MN8D8678.html">/niosh-rtecs/MN8D8678.html</a> ) |                    | <b>DOT ID &amp; Guide</b> 1208 128 ( <a href="http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=128">http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=128</a> )  ( <a href="http://www.cdc.gov/Other/disclaimer.html">http://www.cdc.gov/Other/disclaimer.html</a> )  |                     |                     |
| <b>Formula</b> CH <sub>3</sub> [CH <sub>2</sub> ] <sub>4</sub> CH <sub>3</sub>  | <b>Conversion</b> 1 ppm = 3.53 mg/m <sup>3</sup>   |                    | <b>IDLH</b> 1100 ppm [10%LEL]<br>See: <a href="/niosh/idlh/110543.html">110543 (/niosh/idlh/110543.html)</a>   |                     |                     |
| <b>Exposure Limits</b><br><b>NIOSH REL</b> : TWA 50 ppm (180 mg/m <sup>3</sup> )<br><b>OSHA PEL</b> † ( <a href="http://nengapdxg.html">nengapdxg.html</a> ): TWA 500 ppm (1800 mg/m <sup>3</sup> )   |  |                    | <b>Measurement Methods</b><br><b>NIOSH</b> 1500  ( <a href="/niosh/docs/2003-154/pdfs/1500.pdf">/niosh/docs/2003-154/pdfs/1500.pdf</a> ), 3800  ( <a href="/niosh/docs/2003-154/pdfs/3800.pdf">/niosh/docs/2003-154/pdfs/3800.pdf</a> );<br><b>OSHA</b> 7 ( <a href="http://www.osha.gov/dts/sltc/methods/organic/org001/org001.html">http://www.osha.gov/dts/sltc/methods/organic/org001/org001.html</a> )  ( <a href="http://www.cdc.gov/Other/disclaimer.html">http://www.cdc.gov/Other/disclaimer.html</a> )<br>See: <b>NMAM</b> ( <a href="/niosh/docs/2003-154/">/niosh/docs/2003-154/</a> ) or <b>OSHA Methods</b> ( <a href="http://www.osha.gov/dts/sltc/methods/index.html">http://www.osha.gov/dts/sltc/methods/index.html</a> )  ( <a href="http://www.cdc.gov/Other/disclaimer.html">http://www.cdc.gov/Other/disclaimer.html</a> ) |                     |                     |
| <b>Physical Description</b> Colorless liquid with a gasoline-like odor.   |  |                    |  |                     |                     |
| <b>MW:</b> 86.2   | <b>BP:</b> 156° F  | <b>FRZ:</b> -219°F | <b>Sol:</b> 0.002%   | <b>VP:</b> 124 mmHg | <b>IP:</b> 10.18 eV |
| <b>Sp.Gr:</b> 0.66  | <b>FLP:</b> -7°F   | <b>UEL:</b> 7.5%   | <b>LEL:</b> 1.1%   |                     |                     |
| Class IB Flammable Liquid: Fl.P. below 73°F and BP at or above 100°F.   |  |                    |  |                     |                     |
| <b>Incompatibilities &amp; Reactivities</b> Strong oxidizers  |  |                    |  |                     |                     |
| <b>Exposure Routes</b> inhalation, ingestion, skin and/or eye contact   |  |                    |  |                     |                     |
| <b>Symptoms</b> irritation eyes, nose; nausea, headache; peripheral neuropathy: numb extremities, muscle weak; dermatitis; dizziness; chemical pneumonitis (aspiration liquid)  |  |                    |  |                     |                     |
| <b>Target Organs</b> Eyes, skin, respiratory system, central nervous system, peripheral nervous system  |  |                    |  |                     |                     |
| <b>Personal Protection/Sanitation</b> (See <a href="#">protection codes (protect.html)</a> )<br><b>Skin:</b> Prevent skin contact<br><b>Eyes:</b> Prevent eye contact<br><b>Wash skin:</b> When contaminated<br><b>Remove:</b> When wet (flammable)<br><b>Change:</b> No recommendation |  |                    | <b>First Aid</b> (See <a href="#">procedures (firstaid.html)</a> )<br><b>Eye:</b> Irrigate immediately<br><b>Skin:</b> Soap wash immediately<br><b>Breathing:</b> Respiratory support<br><b>Swallow:</b> Medical attention immediately   |                     |                     |

**Respirator Recommendations****NIOSH****Up to 500 ppm:**

(APF = 10) Any supplied-air respirator\*

**Up to 1100 ppm:**

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode\*

(APF = 50) Any self-contained breathing apparatus with a full facepiece

(APF = 50) Any supplied-air respirator with a full facepiece

**Emergency or planned entry into unknown concentrations or IDLH conditions:**

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

**Escape:**

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister

Any appropriate escape-type, self-contained breathing apparatus

[Important additional information about respirator selection \(pgintrod.html#mustread\)](#)

See also: [INTRODUCTION \(/niosh/npg/pgintrod.html\)](#) See ICSC CARD: [0279 \(/niosh/ipcsneng/neng0279.html\)](#) See MEDICAL TESTS: [0114 \(/niosh/docs/2005-110/nmedo114.html\)](#)

Page last reviewed: April 4, 2011

Page last updated: November 18, 2010

Content source: [National Institute for Occupational Safety and Health \(NIOSH\)](#) Education and Information Division

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