HEXYLENE GLYCOL

PRODUCT IDENTIFICATION
- CAS NO.: 107-41-5, 99113-75-4
- EINECS NO.: 203-489-0
- FORMULA: \( \text{CH}_3\text{CH(OH)CH}_2\text{C(CH}_3\text{)OH} \)
- MOL WT.: 118.17
- H.S. CODE: 2905.39.6000
- TOXICITY: Oral Rat LD50: 3700mg/kg
- SYNONYMS: 2-Methyl-2,4-pentanediol; Diolane; Hexylene glycol; 2-Methylpentane-2,4-diol; 2-Metilpentano-2,4-diol; 2-Méthylpentane-2,4-diol; (+-)2-Methyl-2,4-pentanediol; 1,1,3-Trimethyltrimethylenediol; 2,4-Dihydroxy-2-methylpentane; 4-Methyl-2,4-pentanediol; alpha,alpha,alpha’-Trimethyltrimethylene glycol
- SMILES: \( \text{C(C[\text{C@H]}(\text{C})\text{O})(\text{C})(\text{C})\text{O}} \)
- CLASSIFICATION: Solvent, Diol, Humectant
- EXTRA NOTES: EPA Pesticide Chemical Code 068601

PHYSICAL AND CHEMICAL PROPERTIES
- PHYSICAL STATE: Clear liquid
- MELTING POINT: -50 C
- BOILING POINT: 198 C
- SPECIFIC GRAVITY: 0.925
- SOLUBILITY IN WATER: Soluble
- SOLVENT SOLUBILITY: Soluble in alcohol, ether and lower aliphatic hydrocarbons
- VAPOR DENSITY: 4.1
- log Pow: 0.58 (Octanol-water)
- VAPOR PRESSURE: 0.013 (mmHg)
- HENRY LAW CONSTANT: 4.06E-07 (atm-m3/mole at 25 C)
- OH RATE CONSTANT: 1.42E-11 (cm3/molecule-sec at 25 C Atmospheric)
- AUTOIGNITION: Not reported
- NFPA RATINGS: Health: 0; Flammability: 1; Instability: 0
- REFRACTIVE INDEX: Not reported
- FLASH POINT: 96 C
- STABILITY: Stable under ordinary conditions.

EXTERNAL LINKS & GENERAL DESCRIPTION
- As a solvent in urethane manufacturing
- As an effective insect repellent
- Emollient agent for cosmetic creams and lotions
- Coupling agent for shampoos, and liquid cleansing creams
- Lubricant for textile spinning
- Solvency component for printing inks
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<thead>
<tr>
<th><strong>SALES SPECIFICATION</strong></th>
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<tbody>
<tr>
<td><strong>APPEARANCE</strong></td>
<td>clear liquid</td>
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<tr>
<td><strong>CONTENT</strong></td>
<td>99.5% min</td>
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<tr>
<td><strong>DISTILLATION RANGE</strong></td>
<td>195 (IBP), 200 C (DP)</td>
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<tr>
<td><strong>WATER</strong></td>
<td>0.1% max</td>
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<td><strong>COLOR, APHA</strong></td>
<td>10 max</td>
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<td><strong>TRANSPORTATION</strong></td>
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<tr>
<td><strong>PACKING</strong></td>
<td>190 kgs in drum</td>
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<td><strong>HAZARD CLASS</strong></td>
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<td><strong>UN NO.</strong></td>
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<td><strong>OTHER INFORMATION</strong></td>
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