

# 1-Nonanol

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other names:         | 1-Hydroxynonane<br>Alcohol C-9<br>NSC 5521<br>Nonan-1-ol<br>Nonanol<br>Nonanol-(1)<br>Nonyl alcohol<br>OCTYLCARBINOL<br>Octyl carbinol<br>Pelargonic alcohol<br>n-Nonan-1-ol<br>n-Nonanol<br>n-Nonyl alcohol |
| Inchi:               | InChI=1S/C9H20O/c1-2-3-4-5-6-7-8-9-10/h10H,2-9H2,1H3                                                                                                                                                         |
| InchiKey:            | ZWRUINPWMLAQRD-UHFFFAOYSA-N                                                                                                                                                                                  |
| Formula:             | C9H20O                                                                                                                                                                                                       |
| SMILES:              | CCCCCCCCCO                                                                                                                                                                                                   |
| Mol. weight [g/mol]: | 144.25                                                                                                                                                                                                       |
| CAS:                 | 143-08-8                                                                                                                                                                                                     |

## Physical Properties

| Property code | Value           | Unit     | Source       |
|---------------|-----------------|----------|--------------|
| chl           | -5947.00 ± 1.00 | kJ/mol   | NIST Webbook |
| chl           | -5939.48        | kJ/mol   | NIST Webbook |
| chl           | -5939.50 ± 3.00 | kJ/mol   | NIST Webbook |
| chl           | -5946.30 ± 0.60 | kJ/mol   | NIST Webbook |
| chl           | -5940.80 ± 1.00 | kJ/mol   | NIST Webbook |
| dm            | 1.70            | debye    | KDB          |
| fil           | 0.80            | % in Air | KDB          |
| flu           | 6.10            | % in Air | KDB          |
| fpc           | 372.04          | K        | KDB          |
| fpo           | 347.04          | K        | KDB          |
| gf            | -118.30         | kJ/mol   | KDB          |
| hf            | -375.60 ± 2.10  | kJ/mol   | NIST Webbook |
| hf            | -376.00 ± 1.30  | kJ/mol   | NIST Webbook |
| hf            | -376.70 ± 1.00  | kJ/mol   | NIST Webbook |
| hf            | -368.70         | kJ/mol   | NIST Webbook |

|         |                 |        |                                      |
|---------|-----------------|--------|--------------------------------------|
| hf      | -374.30         | kJ/mol | NIST Webbook                         |
| hf      | -382.30 ± 1.40  | kJ/mol | NIST Webbook                         |
| hf      | -387.20         | kJ/mol | KDB                                  |
| hf      | -383.50 ± 3.10  | kJ/mol | NIST Webbook                         |
| hfl     | -460.50 ± 3.00  | kJ/mol | NIST Webbook                         |
| hfl     | -459.20 ± 1.20  | kJ/mol | NIST Webbook                         |
| hfl     | -453.60 ± 0.60  | kJ/mol | NIST Webbook                         |
| hfl     | -460.40 ± 3.00  | kJ/mol | NIST Webbook                         |
| hfus    | 23.15           | kJ/mol | Joback Method                        |
| hvap    | 84.90           | kJ/mol | NIST Webbook                         |
| hvap    | 74.70 ± 0.30    | kJ/mol | NIST Webbook                         |
| hvap    | 72.20           | kJ/mol | NIST Webbook                         |
| hvap    | 76.70           | kJ/mol | NIST Webbook                         |
| hvap    | 77.40           | kJ/mol | NIST Webbook                         |
| hvap    | 76.86 ± 0.75    | kJ/mol | NIST Webbook                         |
| hvap    | 76.90 ± 0.80    | kJ/mol | NIST Webbook                         |
| hvap    | 77.80 ± 1.90    | kJ/mol | NIST Webbook                         |
| hvap    | 76.86           | kJ/mol | NIST Webbook                         |
| log10ws | -3.01           |        | Estimated Solubility Method          |
| log10ws | -3.01           |        | Aqueous Solubility Prediction Method |
| logp    | 2.729           |        | Crippen Method                       |
| mccvol  | 143.540         | ml/mol | McGowan Method                       |
| nfpaf   | %!d(float64=2)  |        | KDB                                  |
| nfpah   | %!d(float64=1)  |        | KDB                                  |
| pc      | 2546.00 ± 20.00 | kPa    | NIST Webbook                         |
| pc      | 2510.00 ± 60.00 | kPa    | NIST Webbook                         |
| pc      | 2546.00 ± 20.00 | kPa    | NIST Webbook                         |
| pc      | 2528.00         | kPa    | KDB                                  |
| pc      | 2530.00 ± 50.00 | kPa    | NIST Webbook                         |
| rhoc    | 252.45 ± 5.77   | kg/m3  | NIST Webbook                         |
| rhoc    | 265.43 ± 2.89   | kg/m3  | NIST Webbook                         |
| rhoc    | 263.99          | kg/m3  | NIST Webbook                         |
| rhoc    | 252.45 ± 7.21   | kg/m3  | NIST Webbook                         |
| rinpol  | 1151.00         |        | NIST Webbook                         |
| rinpol  | 1172.00         |        | NIST Webbook                         |
| rinpol  | 1174.00         |        | NIST Webbook                         |
| rinpol  | 1171.00         |        | NIST Webbook                         |
| rinpol  | 1176.00         |        | NIST Webbook                         |
| rinpol  | 1174.00         |        | NIST Webbook                         |
| rinpol  | 1173.00         |        | NIST Webbook                         |
| rinpol  | 1158.00         |        | NIST Webbook                         |
| rinpol  | 1170.00         |        | NIST Webbook                         |
| rinpol  | 1156.00         |        | NIST Webbook                         |

|        |         |              |
|--------|---------|--------------|
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1150.00 | NIST Webbook |
| rinpol | 1175.00 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1154.00 | NIST Webbook |
| rinpol | 1154.00 | NIST Webbook |
| rinpol | 1170.00 | NIST Webbook |
| rinpol | 1169.00 | NIST Webbook |
| rinpol | 1153.00 | NIST Webbook |
| rinpol | 1174.00 | NIST Webbook |
| rinpol | 1172.00 | NIST Webbook |
| rinpol | 1173.90 | NIST Webbook |
| rinpol | 1156.00 | NIST Webbook |
| rinpol | 1171.60 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1169.00 | NIST Webbook |
| rinpol | 1156.90 | NIST Webbook |
| rinpol | 1156.80 | NIST Webbook |
| rinpol | 1156.80 | NIST Webbook |
| rinpol | 1156.70 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1163.30 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1175.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1169.00 | NIST Webbook |
| rinpol | 1166.00 | NIST Webbook |
| rinpol | 1163.00 | NIST Webbook |
| rinpol | 1137.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1171.40 | NIST Webbook |
| rinpol | 1154.50 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1151.00 | NIST Webbook |
| rinpol | 1180.00 | NIST Webbook |
| rinpol | 1179.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1175.00 | NIST Webbook |
| rinpol | 1181.00 | NIST Webbook |
| rinpol | 196.63  | NIST Webbook |
| rinpol | 1149.00 | NIST Webbook |
| rinpol | 1169.20 | NIST Webbook |
| rinpol | 1172.00 | NIST Webbook |

|        |         |              |
|--------|---------|--------------|
| rinpol | 1172.00 | NIST Webbook |
| rinpol | 1186.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1163.00 | NIST Webbook |
| rinpol | 1152.00 | NIST Webbook |
| rinpol | 1163.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1154.00 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1159.00 | NIST Webbook |
| rinpol | 1178.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1168.00 | NIST Webbook |
| rinpol | 197.48  | NIST Webbook |
| rinpol | 1153.00 | NIST Webbook |
| rinpol | 1149.00 | NIST Webbook |
| rinpol | 195.98  | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1153.00 | NIST Webbook |
| rinpol | 1159.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1174.00 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1180.00 | NIST Webbook |
| rinpol | 1181.00 | NIST Webbook |
| rinpol | 1181.00 | NIST Webbook |
| rinpol | 1176.00 | NIST Webbook |
| rinpol | 1174.00 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1172.00 | NIST Webbook |
| rinpol | 1186.00 | NIST Webbook |
| rinpol | 1163.00 | NIST Webbook |
| rinpol | 1183.00 | NIST Webbook |
| rinpol | 1169.00 | NIST Webbook |
| rinpol | 1176.00 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1156.00 | NIST Webbook |
| rinpol | 1186.00 | NIST Webbook |
| rinpol | 1182.00 | NIST Webbook |

|        |         |              |
|--------|---------|--------------|
| rinpol | 1182.00 | NIST Webbook |
| rinpol | 1166.00 | NIST Webbook |
| rinpol | 1157.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1159.00 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1180.00 | NIST Webbook |
| rinpol | 1152.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1157.00 | NIST Webbook |
| rinpol | 1157.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1156.00 | NIST Webbook |
| rinpol | 1161.00 | NIST Webbook |
| rinpol | 1152.00 | NIST Webbook |
| rinpol | 1157.00 | NIST Webbook |
| rinpol | 1176.00 | NIST Webbook |
| rinpol | 1171.00 | NIST Webbook |
| rinpol | 1164.00 | NIST Webbook |
| rinpol | 1155.00 | NIST Webbook |
| rinpol | 1157.20 | NIST Webbook |
| rinpol | 1156.90 | NIST Webbook |
| rinpol | 1173.00 | NIST Webbook |
| rinpol | 1172.00 | NIST Webbook |
| rinpol | 1161.90 | NIST Webbook |
| rinpol | 1161.30 | NIST Webbook |
| rinpol | 1153.60 | NIST Webbook |
| rinpol | 1149.00 | NIST Webbook |
| rinpol | 1147.00 | NIST Webbook |
| rinpol | 1143.00 | NIST Webbook |
| rinpol | 1140.00 | NIST Webbook |
| rinpol | 1140.00 | NIST Webbook |
| rinpol | 1167.00 | NIST Webbook |
| rinpol | 1154.00 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1162.00 | NIST Webbook |
| rinpol | 1143.00 | NIST Webbook |
| rinpol | 1166.00 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1162.00 | NIST Webbook |
| rinpol | 1160.00 | NIST Webbook |
| rinpol | 1181.00 | NIST Webbook |
| rinpol | 195.98  | NIST Webbook |

|       |         |              |
|-------|---------|--------------|
| ripol | 1665.00 | NIST Webbook |
| ripol | 1663.30 | NIST Webbook |
| ripol | 1663.00 | NIST Webbook |
| ripol | 1673.00 | NIST Webbook |
| ripol | 1640.00 | NIST Webbook |
| ripol | 1635.00 | NIST Webbook |
| ripol | 1652.00 | NIST Webbook |
| ripol | 1662.00 | NIST Webbook |
| ripol | 1660.00 | NIST Webbook |
| ripol | 1649.00 | NIST Webbook |
| ripol | 1661.00 | NIST Webbook |
| ripol | 1664.00 | NIST Webbook |
| ripol | 1661.00 | NIST Webbook |
| ripol | 1650.00 | NIST Webbook |
| ripol | 1647.00 | NIST Webbook |
| ripol | 1695.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1660.00 | NIST Webbook |
| ripol | 1654.00 | NIST Webbook |
| ripol | 1660.00 | NIST Webbook |
| ripol | 1652.00 | NIST Webbook |
| ripol | 1695.00 | NIST Webbook |
| ripol | 1649.00 | NIST Webbook |
| ripol | 1653.00 | NIST Webbook |
| ripol | 1653.00 | NIST Webbook |
| ripol | 1685.00 | NIST Webbook |
| ripol | 1676.00 | NIST Webbook |
| ripol | 1661.00 | NIST Webbook |
| ripol | 1664.00 | NIST Webbook |
| ripol | 1664.00 | NIST Webbook |
| ripol | 1664.00 | NIST Webbook |
| ripol | 1624.00 | NIST Webbook |
| ripol | 1674.00 | NIST Webbook |
| ripol | 1658.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1636.00 | NIST Webbook |
| ripol | 1657.00 | NIST Webbook |
| ripol | 1619.00 | NIST Webbook |
| ripol | 1658.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1662.00 | NIST Webbook |
| ripol | 1658.00 | NIST Webbook |
| ripol | 1647.00 | NIST Webbook |
| ripol | 1625.00 | NIST Webbook |

|       |         |              |
|-------|---------|--------------|
| ripol | 1660.00 | NIST Webbook |
| ripol | 1669.00 | NIST Webbook |
| ripol | 1661.00 | NIST Webbook |
| ripol | 1661.00 | NIST Webbook |
| ripol | 1645.00 | NIST Webbook |
| ripol | 1681.20 | NIST Webbook |
| ripol | 1681.20 | NIST Webbook |
| ripol | 1649.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1653.00 | NIST Webbook |
| ripol | 1639.00 | NIST Webbook |
| ripol | 1663.00 | NIST Webbook |
| ripol | 1668.00 | NIST Webbook |
| ripol | 1645.00 | NIST Webbook |
| ripol | 1666.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1665.00 | NIST Webbook |
| ripol | 1664.80 | NIST Webbook |
| ripol | 1663.90 | NIST Webbook |
| ripol | 1663.90 | NIST Webbook |
| ripol | 1663.30 | NIST Webbook |
| ripol | 1668.00 | NIST Webbook |
| ripol | 1671.00 | NIST Webbook |
| ripol | 1644.00 | NIST Webbook |
| ripol | 1663.00 | NIST Webbook |
| ripol | 1682.00 | NIST Webbook |
| ripol | 1649.00 | NIST Webbook |
| ripol | 1668.00 | NIST Webbook |
| ripol | 1640.00 | NIST Webbook |
| ripol | 1643.00 | NIST Webbook |
| ripol | 1654.00 | NIST Webbook |
| ripol | 1656.00 | NIST Webbook |
| ripol | 1658.00 | NIST Webbook |
| ripol | 1673.00 | NIST Webbook |
| ripol | 1666.00 | NIST Webbook |
| ripol | 1662.00 | NIST Webbook |
| ripol | 1666.00 | NIST Webbook |
| ripol | 1666.00 | NIST Webbook |
| ripol | 1663.00 | NIST Webbook |
| ripol | 1655.00 | NIST Webbook |
| ripol | 1655.00 | NIST Webbook |
| ripol | 1629.00 | NIST Webbook |
| ripol | 1624.00 | NIST Webbook |
| ripol | 1640.00 | NIST Webbook |

|       |               |         |                                         |
|-------|---------------|---------|-----------------------------------------|
| ripol | 1624.00       |         | NIST Webbook                            |
| ripol | 1647.00       |         | NIST Webbook                            |
| ripol | 1665.00       |         | NIST Webbook                            |
| ripol | 1630.00       |         | NIST Webbook                            |
| ripol | 1635.00       |         | NIST Webbook                            |
| ripol | 1624.00       |         | NIST Webbook                            |
| ripol | 1663.00       |         | NIST Webbook                            |
| ripol | 1680.00       |         | NIST Webbook                            |
| ripol | 1664.00       |         | NIST Webbook                            |
| ripol | 1652.00       |         | NIST Webbook                            |
| ripol | 1659.00       |         | NIST Webbook                            |
| ripol | 1658.00       |         | NIST Webbook                            |
| ripol | 1627.00       |         | NIST Webbook                            |
| ripol | 1649.00       |         | NIST Webbook                            |
| ripol | 1662.00       |         | NIST Webbook                            |
| ripol | 1661.00       |         | NIST Webbook                            |
| ripol | 1653.00       |         | NIST Webbook                            |
| tb    | 488.20        | K       | NIST Webbook                            |
| tb    | 486.40 ± 3.00 | K       | NIST Webbook                            |
| tb    | 486.65 ± 0.50 | K       | NIST Webbook                            |
| tb    | 486.15 ± 4.00 | K       | NIST Webbook                            |
| tb    | 486.65 ± 2.00 | K       | NIST Webbook                            |
| tb    | 486.15 ± 3.00 | K       | NIST Webbook                            |
| tb    | 486.25 ± 1.00 | K       | NIST Webbook                            |
| tb    | 486.70        | K       | NIST Webbook                            |
| tb    | 486.52        | K       | KDB                                     |
| tb    | 486.45 ± 0.50 | K       | NIST Webbook                            |
| tb    | 471.55 ± 2.00 | K       | NIST Webbook                            |
| tc    | 671.00 ± 1.00 | K       | NIST Webbook                            |
| tc    | 670.40 ± 0.60 | K       | NIST Webbook                            |
| tc    | 670.40 ± 0.60 | K       | NIST Webbook                            |
| tc    | 670.50        | K       | NIST Webbook                            |
| tc    | 670.52 ± 0.70 | K       | NIST Webbook                            |
| tc    | 683.00 ± 2.00 | K       | NIST Webbook                            |
| tc    | 671.30 ± 1.00 | K       | NIST Webbook                            |
| tc    | 670.70        | K       | KDB                                     |
| tf    | 267.55        | K       | Aqueous Solubility<br>Prediction Method |
| tf    | 268.00        | K       | KDB                                     |
| vc    | 0.572         | m3/kmol | NIST Webbook                            |
| vc    | 0.572         | m3/kmol | KDB                                     |
| zc    | 0.2593030     |         | KDB                                     |

# Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 381.35    | J/mol×K | 603.56          | Joback Method |
| cpg           | 391.99    | J/mol×K | 630.07          | Joback Method |
| cpg           | 334.38    | J/mol×K | 497.50          | Joback Method |
| cpg           | 346.81    | J/mol×K | 524.01          | Joback Method |
| cpg           | 358.77    | J/mol×K | 550.53          | Joback Method |
| cpg           | 370.28    | J/mol×K | 577.04          | Joback Method |
| cpg           | 402.22    | J/mol×K | 656.58          | Joback Method |
| cpl           | 356.30    | J/mol×K | 303.10          | NIST Webbook  |
| cpl           | 342.90    | J/mol×K | 304.17          | NIST Webbook  |
| dvisc         | 0.0002495 | Pa×s    | 456.58          | Joback Method |
| dvisc         | 0.0001486 | Pa×s    | 497.50          | Joback Method |
| dvisc         | 0.0415724 | Pa×s    | 252.01          | Joback Method |
| dvisc         | 0.0084367 | Pa×s    | 292.93          | Joback Method |
| dvisc         | 0.0025311 | Pa×s    | 333.84          | Joback Method |
| dvisc         | 0.0009877 | Pa×s    | 374.75          | Joback Method |
| dvisc         | 0.0004639 | Pa×s    | 415.67          | Joback Method |
| hvapt         | 65.50     | kJ/mol  | 426.00          | NIST Webbook  |
| hvapt         | 64.50     | kJ/mol  | 427.50          | NIST Webbook  |
| hvapt         | 54.39     | kJ/mol  | 486.60          | KDB           |
| hvapt         | 65.00     | kJ/mol  | 434.00          | NIST Webbook  |
| hvapt         | 62.90     | kJ/mol  | 438.00          | NIST Webbook  |
| hvapt         | 59.70     | kJ/mol  | 459.50          | NIST Webbook  |
| rhoI          | 828.00    | kg/m3   | 293.00          | KDB           |
| srf           | 0.03      | N/m     | 293.20          | KDB           |

# Correlations

| Information                 | Value                         |
|-----------------------------|-------------------------------|
| Property code               | pvap                          |
| Equation                    | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A                    | 1.43149e+01                   |
| Coeff. B                    | -3.52869e+03                  |
| Coeff. C                    | -1.21090e+02                  |
| Temperature range (K), min. | 372.65                        |
| Temperature range (K), max. | 513.02                        |

| Information                 | Value                                                  |
|-----------------------------|--------------------------------------------------------|
| Property code               | pvap                                                   |
| Equation                    | $\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$ |
| Coeff. A                    | 2.51000e+02                                            |
| Coeff. B                    | -1.90455e+04                                           |
| Coeff. C                    | -3.41120e+01                                           |
| Coeff. D                    | 1.61583e-05                                            |
| Temperature range (K), min. | 268.15                                                 |
| Temperature range (K), max. | 673.00                                                 |

## Sources

|                                                              |                                                                                                                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KDB Vapor Pressure Data:</b>                              | <a href="https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846">https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846</a>                                                                       |
| <b>Joback Method:</b>                                        | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                                                                                                   |
| <b>McGowan Method:</b>                                       | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                                                                                                   |
| <b>KDB:</b>                                                  | <a href="https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846">https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846</a>                                                                       |
| <b>The Yaws Handbook of Vapor Pressure:</b>                  | <a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>                                 |
| <b>Aqueous Solubility Prediction Method:</b>                 | <a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx</a> |
| <b>KDB Pure (Korean Thermophysical Properties Databank):</b> | <a href="https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846">https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=846</a>                                                                       |
| <b>Crippen Method:</b>                                       | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                                                                                               |
| <b>Estimated Solubility Method:</b>                          | <a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</a>                       |
| <b>NIST Webbook:</b>                                         | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C143088&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C143088&amp;Units=SI</a>                                                                               |

## Legend

|               |                                              |
|---------------|----------------------------------------------|
| <b>chl:</b>   | Standard liquid enthalpy of combustion       |
| <b>cpg:</b>   | Ideal gas heat capacity                      |
| <b>cpl:</b>   | Liquid phase heat capacity                   |
| <b>dm:</b>    | Dipole Moment                                |
| <b>dvisc:</b> | Dynamic viscosity                            |
| <b>fl:</b>    | Lower Flammability Limit                     |
| <b>flu:</b>   | Upper Flammability Limit                     |
| <b>fpc:</b>   | Flash Point (Closed Cup Method)              |
| <b>fpo:</b>   | Flash Point (Open Cup Method)                |
| <b>gf:</b>    | Standard Gibbs free energy of formation      |
| <b>hf:</b>    | Enthalpy of formation at standard conditions |

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| <b>hfl:</b>     | Liquid phase enthalpy of formation at standard conditions |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions                 |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions           |
| <b>hvapt:</b>   | Enthalpy of vaporization at a given temperature           |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l                        |
| <b>logp:</b>    | Octanol/Water partition coefficient                       |
| <b>mcvol:</b>   | McGowan's characteristic volume                           |
| <b>nfpaf:</b>   | NFPA Fire Rating                                          |
| <b>nfpah:</b>   | NFPA Health Rating                                        |
| <b>pc:</b>      | Critical Pressure                                         |
| <b>pvap:</b>    | Vapor pressure                                            |
| <b>rhoc:</b>    | Critical density                                          |
| <b>rhof:</b>    | Liquid Density                                            |
| <b>rinpol:</b>  | Non-polar retention indices                               |
| <b>ripol:</b>   | Polar retention indices                                   |
| <b>srf:</b>     | Surface Tension                                           |
| <b>tb:</b>      | Normal Boiling Point Temperature                          |
| <b>tc:</b>      | Critical Temperature                                      |
| <b>tf:</b>      | Normal melting (fusion) point                             |
| <b>vc:</b>      | Critical Volume                                           |
| <b>zc:</b>      | Critical Compressibility                                  |

Latest version available from:

<https://www.cheméo.com/cid/39-947-8/1-Nonanol.pdf>

Generated by Cheméo on 2025-12-22 06:00:13.606844908 +0000 UTC m=+6131411.136885562.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.