## Nonadecane

Other names:
Inchi:
InchiKey:
Formula:
SMILES:
Mol. weight [g/mol]:
CAS:
n-Nonadecane
InChl=1S/C19H40/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h3-19H2,1-2H3
LQERIDTXQFOHKA-UHFFFAOYSA-N
C19H40
ССССССССССССССССССС
268.52

629-92-5

## Physical Properties

| Property code | Value | Unit | Source |
| :---: | :---: | :---: | :---: |
| af | 0.8270 |  | KDB |
| chl | $-12662.60 \pm 2.60$ | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| gf | 109.00 | $\mathrm{kJ} / \mathrm{mol}$ | KDB |
| hf | $-435.10 \pm 2.90$ | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| hf | -435.40 | $\mathrm{kJ} / \mathrm{mol}$ | KDB |
| hfl | $-530.90 \pm 2.90$ | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| hfus | 44.97 | $\mathrm{kJ} / \mathrm{mol}$ | Joback Method |
| hsub | 143.60 | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| hvap | 96.40 | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| hvap | 95.80 | $\mathrm{kJ} / \mathrm{mol}$ | NIST Webbook |
| log10ws | -7.78 |  | Crippen Method |
| logp | 7.658 |  | Crippen Method |
| mcvol | 278.570 | $\mathrm{ml} / \mathrm{mol}$ | McGowan Method |
| pc | 1160.00 | kPa | KDB |
| pc | $1200.00 \pm 200.00$ | kPa | NIST Webbook |
| pc | $1160.00 \pm 40.00$ | kPa | NIST Webbook |
| tb | 603.00 | K | KDB |
| tb | 602.90 | K | NIST Webbook |
| tb | $601.70 \pm 1.50$ | K | NIST Webbook |
| tc | 757.00 | K | Critical temperatures and pressures of C40, C44, and C60 normal alkanes measured by the pulse-heating technique |
| tc | $755.00 \pm 8.00$ | K | NIST Webbook |
| tc | $755.30 \pm 3.00$ | K | NIST Webbook |
| tc | 755.00 | K | KDB |
| tf | $304.90 \pm 0.20$ | K | NIST Webbook |


| tf | $304.60 \pm 0.50$ | K | NIST Webbook |
| :---: | :---: | :---: | :---: |
| tf | $304.35 \pm 0.50$ | K | NIST Webbook |
| tf | $305.00 \pm 4.00$ | K | NIST Webbook |
| tf | $305.00 \pm 3.00$ | K | NIST Webbook |
| tf | 305.20 | K | KDB |
| tf | $305.20 \pm 0.30$ | K | NIST Webbook |
| tf | $303.95 \pm 0.10$ | K | NIST Webbook |
| tf | $305.80 \pm 0.50$ | K | NIST Webbook |
| tf | $304.00 \pm 0.10$ | K | NIST Webbook |
| tf | 295.50 | NIST Webbook |  |
| tt | 1.130 | Solubilities of Some <br> Long-Chain n-Alkanes in <br> Dipropyl Ether, Dibutyl <br> Ether, 1-Chlorobutane, <br> and 1-Chlorooctane as <br> Functions of Temperature |  |
| vc | 0.2088110 | K3/kmol | KDB |
| zc | 0.22 | KDB |  |
| za |  |  | KDB |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
| :---: | :---: | :---: | :---: | :---: |
| cpg | 781.39 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 634.12 | Joback Method |
| cpg | 801.89 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 660.69 | Joback Method |
| cpg | 821.56 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 687.26 | Joback Method |
| cpg | 840.44 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 713.82 | Joback Method |
| cpg | 858.54 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 740.39 | Joback Method |
| cpg | 875.88 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 766.96 | Joback Method |
| cpg | 892.50 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 793.53 | Joback Method |
| cpl | 602.60 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 313.15 | NIST Webbook |
| cpl | 640.00 | $\mathrm{~J} / \mathrm{mol} \times \mathrm{K}$ | 353.00 | NIST Webbook |
| dvisc | 0.0040004 | $\mathrm{~Pa} \mathrm{\times s}$ | 303.89 | Joback Method |
| dvisc | 0.0013868 | $\mathrm{~Pa} \mathrm{\times s}$ | 358.93 | Joback Method |
| dvisc | 0.0006372 | $\mathrm{~Pa} \times \mathrm{s}$ | 413.97 | Joback Method |
| dvisc | 0.0003514 | $\mathrm{~Pa} \mathrm{\times s}$ | 469.00 | Joback Method |
| dvisc | 0.0002196 | $\mathrm{~Pa} \times \mathrm{s}$ | 524.04 | Joback Method |
| dvisc | 0.0001095 | $\mathrm{~Pa} \mathrm{\times s}$ | 634.12 | Joback Method |
| dvisc | 0.0001501 | $\mathrm{~Pa} \times \mathrm{s}$ | 579.08 | Joback Method |
| hfust | 13.67 | $\mathrm{~kJ} / \mathrm{mol}$ | 296.00 | NIST Webbook |
| hfust | 47.40 | $\mathrm{~kJ} / \mathrm{mol}$ | 304.00 | NIST Webbook |
| hfust | 42.70 | $\mathrm{~kJ} / \mathrm{mol}$ | 304.40 | NIST Webbook |
| hfust | 47.40 | $\mathrm{~kJ} / \mathrm{mol}$ | 305.30 | NIST Webbook |


| hsubt | 136.60 | $\mathrm{kJ} / \mathrm{mol}$ | 295.50 | NIST Webbook |
| :---: | :---: | :---: | :---: | :---: |
| hvapt | 73.00 | kJ/mol | 531.00 | NIST Webbook |
| hvapt | 76.20 | kJ/mol | 505.50 | NIST Webbook |
| hvapt | 56.02 | kJ/mol | 603.20 | KDB |
| rhol | 789.00 | kg/m3 | 305.00 | KDB |
| sfust | 155.90 | $\mathrm{J} / \mathrm{mol} \times \mathrm{K}$ | 304.00 | NIST Webbook |
| sfust | 46.20 | J/molxK | 296.00 | NIST Webbook |
| srf | 0.03 | N/m | 323.20 | KDB |
| vols | 0.00 | m3/kg | 426.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 321.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 323.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 326.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 328.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 330.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 332.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 334.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 336.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 338.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 340.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 342.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 344.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 346.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 348.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 350.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 352.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 354.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 356.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 358.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 361.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 363.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 365.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 367.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 369.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 371.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 373.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 375.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 377.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 379.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 381.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 383.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 385.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 387.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 389.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C21H44) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 391.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 393.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 396.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 398.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 400.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 402.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 404.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 406.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 408.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 410.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 412.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 414.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 416.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 418.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 420.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 422.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 424.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 319.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 429.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 431.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 433.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 435.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 437.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 439.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C21H44) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 441.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 443.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 445.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 447.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 449.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 451.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 453.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 455.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 457.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 459.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | m3/kg | 464.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 466.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 468.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 470.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 472.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 474.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 476.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 478.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 480.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 482.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 484.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 486.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 488.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 490.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 492.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 494.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 496.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 499.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 501.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 503.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 505.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C21H44) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 507.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | m3/kg | 509.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 511.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 513.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 515.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 517.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 519.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 521.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 523.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | m3/kg | 525.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 531.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 533.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C21H44) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 535.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | m3/kg | 537.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 539.15 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 541.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 543.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 544.95 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 546.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 548.85 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


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| vols | 0.00 | m3/kg | 552.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | m3/kg | 556.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 558.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 560.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 562.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 564.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 566.35 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 568.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 570.25 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 576.05 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 315.75 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 313.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 311.65 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
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| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 309.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 307.55 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 305.45 | A simple method to determine the specific volumes of liquids and melts as a function of the temperature. Application to four n-alkanes (C16H34, <br> C18H38, <br> C 19 H 40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |

## Correlations

| Information | Value |
| :---: | :---: |
| Property code | $\ln (\mathrm{Pvp})=\mathrm{A}+\mathrm{B} /(\mathrm{T}+\mathrm{C})$ |
| Equation | $1.47703 \mathrm{e}+01$ |
| Coeff. A | $-5.00471 \mathrm{e}+03$ |
| Coeff. B | $-1.09923 \mathrm{e}+02$ |
| Coeff. C | 455.49 |
| Temperature range (K), min. | 639.03 |
| Temperature range (K), max. |  |
| Information | Value |
| Property code | $\ln (\mathrm{Pvp})=\mathrm{A}+\mathrm{B} / \mathrm{T}+\mathrm{C} * \ln (\mathrm{~T})+\mathrm{D}^{\star} \mathrm{T}^{\wedge} 2$ |
| Equation | $1.75641 \mathrm{e}+02$ |
| Coeff. A | $-1.78211 \mathrm{e}+04$ |
| Coeff. B | $-2.25095 \mathrm{e}+01$ |
| Coeff. C | $7.24611 \mathrm{e}-06$ |
| Coeff. D | 305.33 |
| Temperature range $(\mathrm{K})$, min. | 755.93 |
| Temperature range $(\mathrm{K})$, max. |  |

## Sources

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McGowan Method:
KDB Vapor Pressure Data:
Crippen Method:
Crippen Method:
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 CHOMztect eaturating yanourpressuroin theres of e40, c44, the 60 normal alkanes
 Reflkpoce:in Dipropyl Ether, Dibutyl EMEF, 1 -Chlorobutane, and 1-Chlorooctane as Functions of Temperature:
http://link.springer.com/article/10.1007/BF02311772
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## Legend

| af: | Acentric Factor |
| :--- | :--- |
| chl: | Standard liquid enthalpy of combustion |
| cpg: | Ideal gas heat capacity |
| cpl: | Liquid phase heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfl: | Liquid phase enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hfust: | Enthalpy of fusion at a given temperature |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| hvap: | Enthalpy of vaporization at standard conditions |
| hvapt: | Enthalpy of vaporization at a given temperature |
| log10ws: | Log10 of Water solubility in mol// |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| pvap: | Vapor pressure |
| rhol: | Liquid Density |
| sfust: | Entropy of fusion at a given temperature |
| srf: | Surface Tension |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| tt: | Triple Point Temperature |
| vc: | Critical Volume |
| vols: | Specific Volume |

ZC: Critical Compressibility
zra: Rackett Parameter

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