## Heneicosane

| Other names: | henicosane |
| :--- | :--- |
|  | $n$-Heneicosane <br>  <br>  <br> n-henicosane |
| Inchi: | InChI=1S/C21H44/c1-3-5-7-9-11-13-15-17-19-21-20-18-16-14-12-10-8-6-4-2/h3-21H2,1- |
| InchiKey: | FNAZRRHPUDJQCJ-UHFFFAOYSA-N |
| Formula: | C21H44 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCC |
| Mol. weight [g/mol]: | 296.57 |
| CAS: | $629-94-7$ |

## Physical Properties

| Property code | Value | Unit | Source |
| :---: | :---: | :---: | :---: |
| gf | 125.94 | $\mathrm{kJ} / \mathrm{mol}$ | Joback Method |
| hf | -476.77 | kJ/mol | Joback Method |
| hfus | 50.15 | kJ/mol | Joback Method |
| hsub | $142.00 \pm 10.00$ | kJ/mol | NIST Webbook |
| hvap | 106.80 | kJ/mol | NIST Webbook |
| hvap | $109.40 \pm 2.60$ | kJ/mol | NIST Webbook |
| log10ws | -8.61 |  | Crippen Method |
| logp | 8.438 |  | Crippen Method |
| mevol | 306.750 | $\mathrm{ml} / \mathrm{mol}$ | McGowan Method |
| pc | 1030.00 | kPa | KDB |
| pc | $1030.00 \pm 40.00$ | kPa | NIST Webbook |
| pc | $1000.00 \pm 200.00$ | kPa | NIST Webbook |
| rinpol | 360.70 |  | NIST Webbook |
| rinpol | 342.11 |  | NIST Webbook |
| rinpol | 348.41 |  | NIST Webbook |
| rinpol | 360.40 |  | NIST Webbook |
| rinpol | 342.11 |  | NIST Webbook |
| tb | 629.70 | K | NIST Webbook |
| tb | $635.10 \pm 1.50$ | K | NIST Webbook |
| tc | 779.00 | K | Critical temperatures and pressures of C40, C44, and C60 normal alkanes measured by the pulse-heating technique |
| tc | $777.60 \pm 3.00$ | K | NIST Webbook |
| tc | $778.00 \pm 8.00$ | K | NIST Webbook |


| tc | 778.00 | K | KDB |
| :---: | :---: | :---: | :---: |
| tf | 326.43 | K | Joback Method |
| tt | 305.05 | K | Effect of nanopore <br> confinement on the <br> thermal and structural <br> properties of heneicosan |
| vc | 1.212 | $\mathrm{m3} / \mathrm{kmol}$ | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
| :---: | :---: | :---: | :---: | :---: |
| cpg | 900.73 | $\mathrm{J} / \mathrm{mol} \times \mathrm{K}$ | 679.88 | Joback Method |
| cpg | 922.09 | J/molxK | 706.85 | Joback Method |
| cpg | 942.56 | J/molxK | 733.82 | Joback Method |
| cpg | 962.16 | J/molxK | 760.79 | Joback Method |
| cpg | 980.93 | $\mathrm{J} / \mathrm{mol} \times \mathrm{K}$ | 787.76 | Joback Method |
| cpg | 998.90 | J/molxK | 814.73 | Joback Method |
| cpg | 1016.08 | J/molxK | 841.70 | Joback Method |
| cpl | 666.40 | J/molxK | 315.93 | NIST Webbook |
| dvisc | 0.0001737 | Paxs | 562.06 | Joback Method |
| dvisc | 0.0032793 | Paxs | 326.43 | Joback Method |
| dvisc | 0.0000858 | Paxs | 679.88 | Joback Method |
| dvisc | 0.0001180 | Paxs | 620.97 | Joback Method |
| dvisc | 0.0011232 | Paxs | 385.34 | Joback Method |
| dvisc | 0.0005112 | Paxs | 444.25 | Joback Method |
| dvisc | 0.0002797 | Paxs | 503.15 | Joback Method |
| hfust | 47.70 | kJ/mol | 313.70 | NIST Webbook |
| hfust | 46.60 | kJ/mol | 313.00 | NIST Webbook |
| hfust | 47.70 | kJ/mol | 313.70 | NIST Webbook |
| hfust | 15.48 | kJ/mol | 305.70 | NIST Webbook |
| hvapt | 84.70 | $\mathrm{kJ} / \mathrm{mol}$ | 415.00 | NIST Webbook |
| hvapt | 106.80 | kJ/mol | 298.15 | Vapor Pressures and Vaporization Enthalpies of the n-Alkanes from C21 to C30 at T $=298.15 \mathrm{~K}$ by Correlation Gas Chromatography |
| hvapt | 93.70 | kJ/mol | 406.50 | NIST Webbook |
| hvapt | $110.00 \pm 2.00$ | kJ/mol | 382.50 | NIST Webbook |
| hvapt | 88.40 | kJ/mol | 526.00 | NIST Webbook |


| pvap | 9.71e-04 | kPa | 361.52 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| :---: | :---: | :---: | :---: | :---: |
| pvap | 3.96e-04 | kPa | 351.54 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, <br> C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| pvap | $2.20 \mathrm{e}-03$ | kPa | 371.42 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| pvap | 4.98e-03 | kPa | 381.65 | Experimental <br> Vapor Pressures of Six n-Alkanes (C21, C23, C25, <br> C27, C29, C30) <br> in the <br> Temperature Range between 350 K and 460 K |
| pvap | 0.01 | kPa | 391.86 | Experimental <br> Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| pvap | 0.02 | kPa | 402.05 | Experimental <br> Vapor Pressures of Six n-Alkanes (C21, C23, C25, <br> C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| pvap | 0.13 | kPa | 432.27 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |


| pvap | 0.23 | kPa | 442.30 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the Temperature Range between 350 K and 460 K |
| :---: | :---: | :---: | :---: | :---: |
| pvap | 0.38 | kPa | 452.22 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| pvap | 0.61 | kPa | 461.96 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the Temperature Range between 350 K and 460 K |
| pvap | 0.08 | kPa | 422.19 | Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, C30) in the <br> Temperature Range between 350 K and 460 K |
| sfust | 50.65 | $\mathrm{J} / \mathrm{mol} \times \mathrm{K}$ | 305.70 | NIST Webbook |
| sfust | 152.06 | $\mathrm{J} / \mathrm{mol} \times \mathrm{K}$ | 313.70 | NIST Webbook |
| vols | 0.00 | m3/kg | 459.45 | 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 | 372.05 | 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 | 374.05 | 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 $298-573 \mathrm{~K}$ 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, <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 | 375.95 | 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 | 377.95 | 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 | 379.85 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 381.75 | 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 | 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, <br> C18H38, <br> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 385.65 | 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 | 387.65 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 389.55 | 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 | 391.55 | 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 | m3/kg | 393.45 | 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 | 395.35 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/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 | 397.35 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 399.25 | 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 | 401.25 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 403.15 | 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 | 405.15 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 407.05 | 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 | 408.95 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 410.95 | 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 <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | m3/kg | 412.85 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 414.85 | 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 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 416.75 | 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 | 418.65 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 420.65 | 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 | 422.55 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 424.55 | 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 | 426.45 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 428.45 | 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 | 430.35 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 432.25 | 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 | 434.25 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 436.15 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 438.15 | 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 | 440.05 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 442.05 | 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 | 443.95 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 445.85 | 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 | 447.85 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 449.75 | 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 | 451.75 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 453.65 | 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 | 455.65 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 457.55 | 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 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 370.15 | 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 | 461.45 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 463.35 | 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 | 465.35 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 467.25 | 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 | 469.15 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 471.15 | 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 | 473.05 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 475.05 | 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 | 476.95 | 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 | 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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 478.95 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 480.85 | 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 | 482.75 | 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 <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 484.75 | 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 | 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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 488.65 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 490.55 | 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 | 492.55 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 494.45 | 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 | 496.35 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 498.35 | 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 | 500.25 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 502.25 | 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 | 504.15 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 506.15 | 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> C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 508.05 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| vols | 0.00 | $\mathrm{m} 3 / \mathrm{kg}$ | 509.95 | 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 | $\mathrm{m} 3 / \mathrm{kg}$ | 511.95 | 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, C 19 H 40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


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| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 515.85 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 517.75 | 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 | 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> C19H40 and 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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 523.55 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 525.55 | 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 | 527.45 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 529.45 | 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 |
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| 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 $298-573 \mathrm{~K}$ 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, <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 | 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, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| 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 $298-573 \mathrm{~K}$ 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, <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 | 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, <br> C18H38, <br> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/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, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the $298-573 \mathrm{~K}$ 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 |
| vols | 0.00 | m3/kg | 550.75 | 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 <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| 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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/kg | 554.65 | 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 $298-573 \mathrm{~K}$ range |
| 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 <br> 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, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/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, C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |
| :---: | :---: | :---: | :---: | :---: |
| vols | 0.00 | m3/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, C18H38, C19H40 and C 21 H 44 ) under saturating vapour pressure in the $298-573 \mathrm{~K}$ 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, <br> C18H38, <br> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 368.15 | 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 | 366.25 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 364.35 | 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 | 362.35 | 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> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 360.45 | 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 | 358.45 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 356.55 | 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 | 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, <br> C18H38, <br> C19H40 and C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 354.65 | 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 | m3/kg | 352.65 | 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 $298-573 \mathrm{~K}$ range |
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| vols | 0.00 | m3/kg | 348.75 | 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 <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 346.85 | 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 | 344.85 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 341.05 | 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 | 339.05 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 337.15 | 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 | 335.15 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 333.25 | 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 | 331.25 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |


| vols | 0.00 | m3/kg | 329.35 | 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 | 327.45 | 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 $298-573 \mathrm{~K}$ range |
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| vols | 0.00 | m3/kg | 323.55 | 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 | m3/kg | 321.55 | 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 | 319.65 | 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 $298-573 \mathrm{~K}$ range |
| vols | 0.00 | m3/kg | 317.65 | 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 | 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> C19H40 and <br> C 21 H 44 ) under saturating vapour pressure in the 298-573K range |

$\left.\begin{array}{ccc}\text { vols } & \text { m3/kg } & 313.65 \begin{array}{c}\text { A simple method } \\ \text { to determine the } \\ \text { specific volumes } \\ \text { of liquids and } \\ \text { melts as a } \\ \text { function of the } \\ \text { temperature. }\end{array} \\ & & \begin{array}{c}\text { Application to } \\ \text { four n-alkanes } \\ \text { (C16H34, }\end{array} \\ & & \begin{array}{c}\text { C18H38, } \\ \text { C19H40 and }\end{array} \\ & & \text { C21H44) under } \\ & & \text { saturating vapour } \\ \text { pressure in the } \\ \text { 298-573K range }\end{array}\right]$

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
| :---: | :---: | :---: | :---: | :---: |
| tbrp | 373.20 | K | 0.30 | NIST Webbook |

## Correlations

| Information | Value |
| :---: | :---: |
| Property code | pvap |
| Equation | $\ln (\mathrm{Pvp})=\mathrm{A}+\mathrm{B} / \mathrm{T}+\mathrm{C}^{*} \ln (\mathrm{~T})+\mathrm{D}^{\star} \mathrm{T}^{\wedge} 2$ |
| Coeff. A | $2.84438 \mathrm{e}+02$ |
| Coeff. B | $-2.48585 \mathrm{e}+04$ |
| Coeff. C | $-3.81807 \mathrm{e}+01$ |
| Coeff. D | $1.44881 \mathrm{e}-05$ |
| Temperature range $(\mathrm{K})$, min. | 422.15 |

## Sources

Crippen Method:
Critical temperatures and pressures of C40, C44, and C60 normal alkanes freis ceredrlothqie pulse-heating KépBnigue: Pressure Data:
Experimental Vapor Pressures of Six n-Alkanes (C21, C23, C25, C27, C29, Effertrpfheaieppleq quntranget on the
 Kotécosan:

## Joback Method:

McGowan Method:
NIST Webbook:
A simple method to determine the specific volumes of liquids and melts



 298-573K range:
Legend
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| 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 |
| hfus: | Enthalpy of fusion at standard conditions |
| hfust: | Enthalpy of fusion at a given temperature |
| hsub: | Enthalpy of sublimation at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| hvapt: | Enthalpy of vaporization at a given temperature |
| log10ws: | Log10 of Water solubility in mol//I |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| pvap: | Vapor pressure |
| rinpol: | Non-polar retention indices |
| sfust: | Entropy of fusion at a given temperature |
| tb: | Normal Boiling Point Temperature |
| tbrp: | Boiling point at reduced pressure |

tc: Critical Temperature
tf: Normal melting (fusion) point
tt: Triple Point Temperature
vc: Critical Volume
vols: Specific Volume

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