

6-chloroheptyl trichloroacetate

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|-----------------------------|--|
| Other names: | 1-Heptanol, 6-chloro, trichloroacetate |
| Inchi: | InChI=1S/C9H14Cl4O2/c1-7(10)5-3-2-4-6-15-8(14)9(11,12)13/h7H,2-6H2,1H3 |
| InchiKey: | IBGLZKHCYPMZSV-UHFFFAOYSA-N |
| Formula: | C9H14Cl4O2 |
| SMILES: | CC(Cl)CCCCCOC(=O)C(Cl)(Cl)Cl |
| Mol. weight [g/mol]: | 296.02 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -256.34 | kJ/mol | Joback Method |
| hf | -550.88 | kJ/mol | Joback Method |
| hfus | 27.70 | kJ/mol | Joback Method |
| hvap | 60.64 | kJ/mol | Joback Method |
| log10ws | -4.28 | | Crippen Method |
| logp | 4.088 | | Crippen Method |
| mcvol | 194.070 | ml/mol | McGowan Method |
| pc | 2149.31 | kPa | Joback Method |
| rinpol | 1688.00 | | NIST Webbook |
| rinpol | 1659.00 | | NIST Webbook |
| rinpol | 1669.00 | | NIST Webbook |
| rinpol | 1659.00 | | NIST Webbook |
| rinpol | 1679.00 | | NIST Webbook |
| ripol | 2266.00 | | NIST Webbook |
| ripol | 2266.00 | | NIST Webbook |
| ripol | 2285.00 | | NIST Webbook |
| ripol | 2301.00 | | NIST Webbook |
| tb | 627.66 | K | Joback Method |
| tc | 834.33 | K | Joback Method |
| tf | 370.45 | K | Joback Method |
| vc | 0.743 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|------|-----------------|--------|
|---------------|-------|------|-----------------|--------|

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|-------|-----------|---------|--------|---------------|
| cpg | 435.50 | J/molxK | 627.66 | Joback Method |
| cpg | 447.08 | J/molxK | 662.11 | Joback Method |
| cpg | 457.91 | J/molxK | 696.55 | Joback Method |
| cpg | 468.02 | J/molxK | 731.00 | Joback Method |
| cpg | 477.45 | J/molxK | 765.44 | Joback Method |
| cpg | 486.24 | J/molxK | 799.89 | Joback Method |
| cpg | 494.41 | J/molxK | 834.33 | Joback Method |
| dvisc | 0.0024724 | Paxs | 370.45 | Joback Method |
| dvisc | 0.0012314 | Paxs | 413.32 | Joback Method |
| dvisc | 0.0006991 | Paxs | 456.19 | Joback Method |
| dvisc | 0.0004375 | Paxs | 499.05 | Joback Method |
| dvisc | 0.0002948 | Paxs | 541.92 | Joback Method |
| dvisc | 0.0002105 | Paxs | 584.79 | Joback Method |
| dvisc | 0.0001574 | Paxs | 627.66 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R111829&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas 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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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<https://www.chemeo.com/cid/55-737-3/6-chloroheptyl-trichloroacetate.pdf>

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