

3-chlorononane

| | |
|-----------------------------|--|
| Other names: | Nonane, 3-chloro- |
| Inchi: | InChI=1S/C9H19Cl/c1-3-5-6-7-8-9(10)4-2/h9H,3-8H2,1-2H3 |
| InchiKey: | ASQUFLQVFQDUFF-UHFFFAOYSA-N |
| Formula: | C9H19Cl |
| SMILES: | CCCCCCC(Cl)CC |
| Mol. weight [g/mol]: | 162.70 |
| CAS: | 28123-68-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 10.53 | kJ/mol | Joback Method |
| hf | -250.11 | kJ/mol | Joback Method |
| hfus | 19.74 | kJ/mol | Joback Method |
| hvap | 39.62 | kJ/mol | Joback Method |
| log10ws | -3.85 | | Crippen Method |
| logp | 3.974 | | Crippen Method |
| mcvol | 149.910 | ml/mol | McGowan Method |
| pc | 2244.00 | kPa | Joback Method |
| rinpol | 1106.00 | | NIST Webbook |
| rinpol | 1106.00 | | NIST Webbook |
| rinpol | 1106.00 | | NIST Webbook |
| ripol | 1264.00 | | NIST Webbook |
| ripol | 1264.00 | | NIST Webbook |
| tb | 442.31 | K | Joback Method |
| tc | 615.85 | K | Joback Method |
| tf | 206.11 | K | Joback Method |
| vc | 0.583 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 304.70 | J/mol×K | 442.31 | Joback Method |
| cpg | 318.86 | J/mol×K | 471.23 | Joback Method |
| cpg | 332.46 | J/mol×K | 500.16 | Joback Method |

| | | | | |
|-------|-----------|---------|--------|---------------|
| cpg | 345.50 | J/mol×K | 529.08 | Joback Method |
| cpg | 357.99 | J/mol×K | 558.00 | Joback Method |
| cpg | 369.96 | J/mol×K | 586.93 | Joback Method |
| cpg | 381.42 | J/mol×K | 615.85 | Joback Method |
| dvisc | 0.0087685 | Paxs | 206.11 | Joback Method |
| dvisc | 0.0030269 | Paxs | 245.48 | Joback Method |
| dvisc | 0.0014020 | Paxs | 284.84 | Joback Method |
| dvisc | 0.0007828 | Paxs | 324.21 | Joback Method |
| dvisc | 0.0004959 | Paxs | 363.58 | Joback Method |
| dvisc | 0.0003434 | Paxs | 402.94 | Joback Method |
| dvisc | 0.0002539 | Paxs | 442.31 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C28123684&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |

Latest version available from:

<https://www.cheméo.com/cid/66-033-2/3-chlorononane.pdf>

Generated by Cheméo on 2024-04-27 04:12:35.164638926 +0000 UTC m=+16480404.085216255.

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