

Phenol, 2-chloro-4-ethyl-

| | |
|-----------------------------|---|
| Other names: | 2-chloro-4-ethylphenol |
| Inchi: | InChI=1S/C8H9ClO/c1-2-6-3-4-8(10)7(9)5-6/h3-5,10H,2H2,1H3 |
| InchiKey: | QNQRCHRJHMSLF-UHFFFAOYSA-N |
| Formula: | C8H9ClO |
| SMILES: | CCc1ccc(O)c(Cl)c1 |
| Mol. weight [g/mol]: | 156.61 |
| CAS: | 18980-00-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -47.29 | kJ/mol | Joback Method |
| hf | -176.44 | kJ/mol | Joback Method |
| hfus | 20.11 | kJ/mol | Joback Method |
| hvap | 53.74 | kJ/mol | Joback Method |
| log10ws | -2.51 | | Crippen Method |
| logp | 2.608 | | Crippen Method |
| mcvol | 117.930 | ml/mol | McGowan Method |
| pc | 4119.70 | kPa | Joback Method |
| rinpol | 1374.00 | | NIST Webbook |
| tb | 532.15 | K | Joback Method |
| tc | 764.53 | K | Joback Method |
| tf | 360.50 | K | Joback Method |
| vc | 0.391 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 248.12 | J/mol×K | 532.15 | Joback Method |
| cpg | 294.10 | J/mol×K | 725.80 | Joback Method |
| cpg | 286.17 | J/mol×K | 687.07 | Joback Method |
| cpg | 277.69 | J/mol×K | 648.34 | Joback Method |
| cpg | 268.57 | J/mol×K | 609.61 | Joback Method |
| cpg | 258.75 | J/mol×K | 570.88 | Joback Method |
| cpg | 301.55 | J/mol×K | 764.53 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000708 | Paxs | 532.15 | Joback Method |
| dvisc | 0.0001055 | Paxs | 503.54 | Joback Method |
| dvisc | 0.0001648 | Paxs | 474.93 | Joback Method |
| dvisc | 0.0002727 | Paxs | 446.32 | Joback Method |
| dvisc | 0.0004833 | Paxs | 417.72 | Joback Method |
| dvisc | 0.0009319 | Paxs | 389.11 | Joback Method |
| dvisc | 0.0019941 | Paxs | 360.50 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C18980002&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/66-590-4/Phenol-2-chloro-4-ethyl.pdf>

Generated by Cheméo on 2024-04-26 21:45:54.726484073 +0000 UTC m=+16457203.647061394.

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