

1-Propene, 1,1-dichloro-2-fluoro-

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| Other names: | Propene, 1,1-dichloro-2-fluoro- 1,1-Dichloro-2-fluoro propene-1 |
| Inchi: | InChI=1S/C3H3Cl2F/c1-2(6)3(4)5/h1H3 |
| InchiKey: | BJSMMNZAHNXJCF-UHFFFAOYSA-N |
| Formula: | C3H3Cl2F |
| SMILES: | CC(F)=C(Cl)Cl |
| Mol. weight [g/mol]: | 128.96 |
| CAS: | 430-95-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -181.17 | kJ/mol | Joback Method |
| hf | -235.20 | kJ/mol | Joback Method |
| hfus | 12.58 | kJ/mol | Joback Method |
| hvap | 30.34 | kJ/mol | Joback Method |
| log10ws | -2.58 | | Crippen Method |
| logp | 2.623 | | Crippen Method |
| mvol | 75.080 | ml/mol | McGowan Method |
| pc | 4093.38 | kPa | Joback Method |
| tb | 346.09 | K | Joback Method |
| tc | 535.48 | K | Joback Method |
| tf | 151.00 | K | Joback Method |
| vc | 0.301 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 104.04 | J/molxK | 346.09 | Joback Method |
| cpg | 109.30 | J/molxK | 377.65 | Joback Method |
| cpg | 114.22 | J/molxK | 409.22 | Joback Method |
| cpg | 118.81 | J/molxK | 440.78 | Joback Method |
| cpg | 123.10 | J/molxK | 472.35 | Joback Method |
| cpg | 127.10 | J/molxK | 503.91 | Joback Method |
| cpg | 130.83 | J/molxK | 535.48 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C430955&Units=SI |
| 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 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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