# Diethylene glycol monoethyl ether, chlorodifluoroacetate

**Inchi:** InChI=1S/C8H13ClF2O4/c1-2-13-3-4-14-5-6-15-7(12)8(9,10)11/h2-6H2,1H3
**InchiKey:** CECOVAGVDQHUQX-UHFFFAOYSA-N
**Formula:** C8H13ClF2O4
**SMILES:** CCOCCOCCOC(=O)C(F)(F)Cl
**Mol. weight [g/mol]:** 246.64

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -826.15 | kJ/mol | Joback Method |
| hf | -1134.40 | kJ/mol | Joback Method |
| hfus | 24.58 | kJ/mol | Joback Method |
| hvap | 48.83 | kJ/mol | Joback Method |
| log10ws | -1.17 | | Crippen Method |
| logp | 1.414 | | Crippen Method |
| mcvol | 158.540 | ml/mol | McGowan Method |
| pc | 2306.95 | kPa | Joback Method |
| rinpol | 1182.00 | | NIST Webbook |
| tb | 536.31 | K | Joback Method |
| tc | 709.18 | K | Joback Method |
| tf | 330.06 | K | Joback Method |
| vc | 0.618 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 375.31 | J/mol×K | 536.31 | Joback Method |
| cpg | 386.59 | J/mol×K | 565.12 | Joback Method |
| cpg | 397.39 | J/mol×K | 593.93 | Joback Method |
| cpg | 407.74 | J/mol×K | 622.74 | Joback Method |
| cpg | 417.61 | J/mol×K | 651.56 | Joback Method |
| cpg | 427.03 | J/mol×K | 680.37 | Joback Method |
| cpg | 435.98 | J/mol×K | 709.18 | Joback Method |

# Sources

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|---|---|
| **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=U376250&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **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 |