

Allyl chloroformate

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| Other names: | Carbonochloridic acid, 2-propenyl ester Allyl chlorocarbonate Formic acid, chloro-, allyl ester Allylester kyseliny chlormravenci Chloroformic acid allyl ester UN 1722 |
| Inchi: | InChI=1S/C4H5ClO2/c1-2-3-7-4(5)6/h2H,1,3H2 |
| InchiKey: | CAEWJEXPFKNBQL-UHFFFAOYSA-N |
| Formula: | C4H5ClO2 |
| SMILES: | C=CCOC(=O)Cl |
| Mol. weight [g/mol]: | 120.53 |
| CAS: | 2937-50-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -175.21 | kJ/mol | Joback Method |
| hf | -261.00 | kJ/mol | Joback Method |
| hfus | 11.82 | kJ/mol | Joback Method |
| hvap | 37.37 | kJ/mol | Joback Method |
| log10ws | -1.34 | | Crippen Method |
| logp | 1.548 | | Crippen Method |
| mcvol | 82.600 | ml/mol | McGowan Method |
| pc | 4156.97 | kPa | Joback Method |
| tb | 401.32 | K | Joback Method |
| tc | 592.92 | K | Joback Method |
| tf | 235.16 | K | Joback Method |
| vc | 0.314 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 136.77 | J/mol×K | 401.32 | Joback Method |
| cpg | 142.82 | J/mol×K | 433.25 | Joback Method |
| cpg | 148.64 | J/mol×K | 465.19 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 154.24 | J/molxK | 497.12 | Joback Method |
| cpg | 159.61 | J/molxK | 529.05 | Joback Method |
| cpg | 164.77 | J/molxK | 560.99 | Joback Method |
| cpg | 169.70 | J/molxK | 592.92 | Joback Method |
| dvisc | 0.0024768 | Paxs | 235.16 | Joback Method |
| dvisc | 0.0014719 | Paxs | 262.85 | Joback Method |
| dvisc | 0.0009660 | Paxs | 290.55 | Joback Method |
| dvisc | 0.0006822 | Paxs | 318.24 | Joback Method |
| dvisc | 0.0005093 | Paxs | 345.93 | Joback Method |
| dvisc | 0.0003971 | Paxs | 373.63 | Joback Method |
| dvisc | 0.0003204 | Paxs | 401.32 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C2937500&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 |
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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