# dl-c-Allylglycine

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|---|---|
| **Other names:** | dl-2-Amino-1-pentenoic acid |
| | 4-Pentenoic acid, 2-amino-, (.+/-.)- |
| | 2-Amino-4-pentenoic acid |
| | DL-2-aminopent-4-enoic acid |
| **Inchi:** | InChI=1S/C5H9NO2/c1-2-3-4(6)5(7)8/h2,4H,1,3,6H2,(H,7,8) |
| **InchiKey:** | WNNNWFKQCKFSDK-UHFFFAOYSA-N |
| **Formula:** | C5H9NO2 |
| **SMILES:** | C=CCC(N)C(=O)O |
| **Mol. weight [g/mol]:** | 115.13 |
| **CAS:** | 7685-44-1 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -122.67 | kJ/mol | Joback Method |
| hf | -257.40 | kJ/mol | Joback Method |
| hfus | 14.79 | kJ/mol | Joback Method |
| hvap | 59.73 | kJ/mol | Joback Method |
| log10ws | -0.41 | | Crippen Method |
| logp | -0.026 | | Crippen Method |
| mcvol | 94.430 | ml/mol | McGowan Method |
| pc | 4849.43 | kPa | Joback Method |
| tb | 528.62 | K | Joback Method |
| tc | 719.54 | K | Joback Method |
| tf | 323.36 | K | Joback Method |
| vc | 0.344 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 213.68 | J/mol×K | 528.62 | Joback Method |
| cpg | 221.39 | J/mol×K | 560.44 | Joback Method |
| cpg | 228.69 | J/mol×K | 592.26 | Joback Method |
| cpg | 235.61 | J/mol×K | 624.08 | Joback Method |
| cpg | 242.15 | J/mol×K | 655.90 | Joback Method |

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|---|---|---|---|---|
| cpg | 248.33 | J/mol×K | 687.72 | Joback Method |
| cpg | 254.16 | J/mol×K | 719.54 | Joback Method |

# Sources

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|---|---|
| **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=C7685441&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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