

DL-Alanine, N-methyl-N-octyloxycarbonyl-, decyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C23H45NO4/c1-5-7-9-11-13-14-16-17-19-27-22(25)21(3)24(4)23(26)28-20-18 |
| InchiKey: | HSYMKTYWXSXCBK-UHFFFAOYSA-N |
| Formula: | C23H45NO4 |
| SMILES: | CCCCCCCCCOC(=O)C(C)N(C)C(=O)OCCCCCCCC |
| Mol. weight [g/mol]: | 399.61 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -216.72 | kJ/mol | Joback Method |
| hf | -945.40 | kJ/mol | Joback Method |
| hfus | 60.40 | kJ/mol | Joback Method |
| hvap | 86.76 | kJ/mol | Joback Method |
| log10ws | -6.83 | | Crippen Method |
| logp | 6.488 | | Crippen Method |
| mvol | 359.790 | ml/mol | McGowan Method |
| pc | 902.89 | kPa | Joback Method |
| rinpol | 2572.00 | | NIST Webbook |
| rinpol | 2572.00 | | NIST Webbook |
| tb | 890.22 | K | Joback Method |
| tc | 1090.37 | K | Joback Method |
| tf | 510.76 | K | Joback Method |
| vc | 1.383 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1199.33 | J/mol×K | 890.22 | Joback Method |
| cpg | 1219.15 | J/mol×K | 923.58 | Joback Method |
| cpg | 1237.62 | J/mol×K | 956.94 | Joback Method |
| cpg | 1254.78 | J/mol×K | 990.30 | Joback Method |
| cpg | 1270.65 | J/mol×K | 1023.65 | Joback Method |
| cpg | 1285.29 | J/mol×K | 1057.01 | Joback Method |
| cpg | 1298.73 | J/mol×K | 1090.37 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392652&Units=SI |

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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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