

D-Alanine, N-ethoxycarbonyl-, decyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C16H31NO4/c1-4-6-7-8-9-10-11-12-13-21-15(18)14(3)17-16(19)20-5-2/h14H,4 |
| InchiKey: | GMKHTYNIFVYJGP-UHFFFAOYSA-N |
| Formula: | C16H31NO4 |
| SMILES: | CCCCCCCCCOC(=O)C(C)NC(=O)OCC |
| Mol. weight [g/mol]: | 301.42 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -297.05 | kJ/mol | Joback Method |
| hf | -814.98 | kJ/mol | Joback Method |
| hfus | 44.35 | kJ/mol | Joback Method |
| hvap | 75.57 | kJ/mol | Joback Method |
| log10ws | -4.52 | | Crippen Method |
| logp | 3.805 | | Crippen Method |
| mvol | 261.160 | ml/mol | McGowan Method |
| pc | 1433.72 | kPa | Joback Method |
| rinpol | 2050.00 | | NIST Webbook |
| rinpol | 2050.00 | | NIST Webbook |
| tb | 767.79 | K | Joback Method |
| tc | 950.65 | K | Joback Method |
| tf | 452.06 | K | Joback Method |
| vc | 1.008 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 795.32 | J/mol×K | 767.79 | Joback Method |
| cpg | 811.65 | J/mol×K | 798.27 | Joback Method |
| cpg | 827.08 | J/mol×K | 828.74 | Joback Method |
| cpg | 841.60 | J/mol×K | 859.22 | Joback Method |
| cpg | 855.22 | J/mol×K | 889.70 | Joback Method |
| cpg | 867.97 | J/mol×K | 920.17 | Joback Method |
| cpg | 879.84 | J/mol×K | 950.65 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U347753&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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

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