

DL-Alanine, N-methyl-N-(but-3-yn-1-yloxy-carbonyl)-, pentadecyl ester

InChI: InChI=1S/C24H43NO4/c1-5-7-9-10-11-12-13-14-15-16-17-18-19-21-28-23(26)22(3)25(4)
InChIKey: DBTGMITXJGIYSC-UHFFFAOYSA-N

Formula: C₂₄H₄₃NO₄

SMILES: C#CCCOC(=O)N(C)C(C)C(=O)OCCCCCCCCCCCCCCC

Mol. weight [g/mol]: 409.60

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 14.77 | kJ/mol | Joback Method |
| hf | -674.14 | kJ/mol | Joback Method |
| hfus | 65.96 | kJ/mol | Joback Method |
| hvap | 88.84 | kJ/mol | Joback Method |
| log10ws | -7.05 | | Crippen Method |
| logp | 6.101 | | Crippen Method |
| mvol | 365.280 | ml/mol | McGowan Method |
| pc | 931.78 | kPa | Joback Method |
| rinpol | 2703.00 | | NIST Webbook |
| rinpol | 2703.00 | | NIST Webbook |
| tb | 903.22 | K | Joback Method |
| tc | 1105.92 | K | Joback Method |
| tf | 569.00 | K | Joback Method |
| vc | 1.401 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1202.32 | J/mol×K | 903.22 | Joback Method |
| cpg | 1221.36 | J/mol×K | 937.00 | Joback Method |
| cpg | 1239.10 | J/mol×K | 970.79 | Joback Method |
| cpg | 1255.60 | J/mol×K | 1004.57 | Joback Method |
| cpg | 1270.89 | J/mol×K | 1038.36 | Joback Method |
| cpg | 1285.04 | J/mol×K | 1072.14 | Joback Method |
| cpg | 1298.08 | J/mol×K | 1105.92 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392712&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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