

DL-Valyl-DL-Valine, N,N'-dimethyl-N'-(but-3-yn-1-yloxycarbonyl)-, but-3-yn-1-yl ester

InChI: InChI=1S/C21H32N2O5/c1-9-11-13-27-20(25)18(16(5)6)22(7)19(24)17(15(3)4)23(8)21(2)1-2
InChIKey: PRJFTFFBZUEASE-UHFFFAOYSA-N

Formula: C21H32N2O5

SMILES: C#CCCCOC(=O)C(C(C)C)N(C)C(=O)C(C(C)C)N(C)C(=O)OCCC#C

Mol. weight [g/mol]: 392.49

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 187.12 | kJ/mol | Joback Method |
| hf | -381.21 | kJ/mol | Joback Method |
| hfus | 55.22 | kJ/mol | Joback Method |
| hvap | 89.65 | kJ/mol | Joback Method |
| log10ws | -3.56 | | Crippen Method |
| logp | 2.152 | | Crippen Method |
| mcvol | 325.960 | ml/mol | McGowan Method |
| pc | 1317.52 | kPa | Joback Method |
| rinpol | 2351.00 | | NIST Webbook |
| rinpol | 2351.00 | | NIST Webbook |
| tb | 889.69 | K | Joback Method |
| tc | 1095.05 | K | Joback Method |
| tf | 619.56 | K | Joback Method |
| vc | 1.202 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1023.68 | J/molxK | 889.69 | Joback Method |
| cpg | 1039.18 | J/molxK | 923.92 | Joback Method |
| cpg | 1053.54 | J/molxK | 958.14 | Joback Method |
| cpg | 1066.83 | J/molxK | 992.37 | Joback Method |
| cpg | 1079.08 | J/molxK | 1026.60 | Joback Method |
| cpg | 1090.35 | J/molxK | 1060.83 | Joback Method |
| cpg | 1100.69 | J/molxK | 1095.05 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=U392951&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 |
| 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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