

«gamma»-Aminobutyric acid, N-isobutoxycarbonyl-, pentadecyl ester

Other names: .gama.-Aminobutyric acid, N-isobutoxycarbonyl-, pentadecyl ester

Inchi: InChI=1S/C24H47NO4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-20-28-23(26)18-17-19-25-2

InchiKey: VPFGWXAVWAPCQT-UHFFFAOYSA-N

Formula: C24H47NO4

SMILES: CCCCCCCCCCCCCCOC(=O)CCNC(=O)OCC(C)C

Mol. weight [g/mol]: 413.63

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -229.69 | kJ/mol | Joback Method |
| hf | -980.10 | kJ/mol | Joback Method |
| hfus | 65.07 | kJ/mol | Joback Method |
| hvap | 93.38 | kJ/mol | Joback Method |
| log10ws | -7.52 | | Crippen Method |
| logp | 6.783 | | Crippen Method |
| mvol | 373.880 | ml/mol | McGowan Method |
| pc | 860.49 | kPa | Joback Method |
| rinpol | 3031.00 | | NIST Webbook |
| tb | 950.83 | K | Joback Method |
| tc | 1168.49 | K | Joback Method |
| tf | 542.22 | K | Joback Method |
| vc | 1.456 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1283.65 | J/molxK | 950.83 | Joback Method |
| cpg | 1303.36 | J/molxK | 987.11 | Joback Method |
| cpg | 1321.47 | J/molxK | 1023.38 | Joback Method |
| cpg | 1338.01 | J/molxK | 1059.66 | Joback Method |
| cpg | 1353.04 | J/molxK | 1095.94 | Joback Method |
| cpg | 1366.59 | J/molxK | 1132.21 | Joback Method |
| cpg | 1378.72 | J/molxK | 1168.49 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U321057&Units=SI |
| 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 |

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 |

Latest version available from:

<https://www.chemeo.com/cid/33-528-9/gamma-Aminobutyric-acid-N-isobutoxycarbonyl-pentadecyl-ester.pdf>

Generated by Cheméo on 2024-04-25 21:25:36.398051489 +0000 UTC m=+16369585.318628817.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.