

I-Valine, n-pentafluoropropionyl-, hexyl ester

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C14H22F5NO3/c1-4-5-6-7-8-23-11(21)10(9(2)3)20-12(22)13(15,16)14(17,18)1 |
| InchiKey: | QLCUAQBNERQVAA-UHFFFAOYSA-N |
| Formula: | C14H22F5NO3 |
| SMILES: | CCCCCOC(=O)C(NC(=O)C(F)(F)C(F)(F)F)C(C)C |
| Mol. weight [g/mol]: | 347.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1179.70 | kJ/mol | Joback Method |
| hf | -1644.81 | kJ/mol | Joback Method |
| hfus | 35.03 | kJ/mol | Joback Method |
| hvap | 61.64 | kJ/mol | Joback Method |
| log10ws | -4.36 | | Crippen Method |
| logp | 3.448 | | Crippen Method |
| mvol | 235.960 | ml/mol | McGowan Method |
| pc | 1466.85 | kPa | Joback Method |
| rinpol | 1492.00 | | NIST Webbook |
| rinpol | 1492.00 | | NIST Webbook |
| tb | 689.06 | K | Joback Method |
| tc | 859.18 | K | Joback Method |
| tf | 400.08 | K | Joback Method |
| vc | 0.941 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 697.22 | J/mol×K | 689.06 | Joback Method |
| cpg | 711.39 | J/mol×K | 717.41 | Joback Method |
| cpg | 724.76 | J/mol×K | 745.77 | Joback Method |
| cpg | 737.35 | J/mol×K | 774.12 | Joback Method |
| cpg | 749.21 | J/mol×K | 802.47 | Joback Method |
| cpg | 760.36 | J/mol×K | 830.83 | Joback Method |
| cpg | 770.86 | J/mol×K | 859.18 | 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=U320881&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 |
| 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 |

Latest version available from:

<https://www.chemeo.com/cid/115-270-4/l-Valine-n-pentafluoropropionyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-28 14:06:33.272662713 +0000 UTC m=+16602442.193240034.

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