

Isobutylcarbamate, N-pentyl

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| Inchi: | InChI=1S/C15H31NO2/c1-5-7-9-11-16(12-10-8-6-2)15(17)18-13-14(3)4/h14H,5-13H2,1-4H3 |
| InchiKey: | XMENVGIGUYLHTP-UHFFFAOYSA-N |
| Formula: | C15H31NO2 |
| SMILES: | CCCCCN(CCCCC)C(=O)OCC(C)C |
| Mol. weight [g/mol]: | 257.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -50.16 | kJ/mol | Joback Method |
| hf | -535.48 | kJ/mol | Joback Method |
| hfus | 36.89 | kJ/mol | Joback Method |
| hvap | 59.80 | kJ/mol | Joback Method |
| log10ws | -4.27 | | Crippen Method |
| logp | 4.461 | | Crippen Method |
| mcvol | 239.630 | ml/mol | McGowan Method |
| pc | 1472.49 | kPa | Joback Method |
| rinpola | 1380.00 | | NIST Webbook |
| rinpola | 1380.00 | | NIST Webbook |
| tb | 630.89 | K | Joback Method |
| tc | 800.00 | K | Joback Method |
| tf | 348.44 | K | Joback Method |
| vc | 0.911 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 661.02 | J/molxK | 630.89 | Joback Method |
| cpg | 679.02 | J/molxK | 659.07 | Joback Method |
| cpg | 696.23 | J/molxK | 687.26 | Joback Method |
| cpg | 712.66 | J/molxK | 715.44 | Joback Method |
| cpg | 728.33 | J/molxK | 743.63 | Joback Method |
| cpg | 743.26 | J/molxK | 771.81 | Joback Method |
| cpg | 757.47 | J/molxK | 800.00 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R392711&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

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|------------------|---|
| 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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