

# Pentafluoropropanamide, N-pentyl-

<b>Inchi:</b>	InChI=1S/C8H12F5NO/c1-2-3-4-5-14-6(15)7(9,10)8(11,12)13/h2-5H2,1H3,(H,14,15)
<b>InchiKey:</b>	ZDTRGNGXDFYEBK-UHFFFAOYSA-N
<b>Formula:</b>	C8H12F5NO
<b>SMILES:</b>	CCCCCNC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	233.18

## Physical Properties

Property code	Value	Unit	Source
gf	-991.42	kJ/mol	Joback Method
hf	-1265.61	kJ/mol	Joback Method
hfus	23.75	kJ/mol	Joback Method
hvap	39.91	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.490		Crippen Method
mcvol	143.980	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	983.00		NIST Webbook
rinpol	983.00		NIST Webbook
tb	476.37	K	Joback Method
tc	634.26	K	Joback Method
tf	290.30	K	Joback Method
vc	0.593	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.14	J/mol×K	476.37	Joback Method
cpg	361.22	J/mol×K	502.68	Joback Method
cpg	372.63	J/mol×K	529.00	Joback Method
cpg	383.41	J/mol×K	555.31	Joback Method
cpg	393.58	J/mol×K	581.63	Joback Method
cpg	403.17	J/mol×K	607.94	Joback Method
cpg	412.21	J/mol×K	634.26	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407333&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/118-382-7/Pentafluoropropanamide-N-pentyl.pdf>

Generated by Cheméo on 2024-04-30 22:58:31.575850252 +0000 UTC m=+16807160.496427570.

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