

# Pentafluoropropanamide, N-(hept-2-yl)-

<b>Inchi:</b>	InChI=1S/C10H16F5NO/c1-3-4-5-6-7(2)16-8(17)9(11,12)10(13,14)15/h7H,3-6H2,1-2H3,
<b>InchiKey:</b>	PLEAPXPYTFICLZ-UHFFFAOYSA-N
<b>Formula:</b>	C10H16F5NO
<b>SMILES:</b>	CCCCC(C)NC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	261.23

## Physical Properties

Property code	Value	Unit	Source
gf	-977.02	kJ/mol	Joback Method
hf	-1312.17	kJ/mol	Joback Method
hfus	25.40	kJ/mol	Joback Method
hvap	43.97	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.269		Crippen Method
mvol	172.160	ml/mol	McGowan Method
pc	1921.98	kPa	Joback Method
rinpol	1071.00		NIST Webbook
rinpol	1071.00		NIST Webbook
tb	521.69	K	Joback Method
tc	681.26	K	Joback Method
tf	297.84	K	Joback Method
vc	0.699	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.06	J/molxK	521.69	Joback Method
cpg	454.68	J/molxK	548.28	Joback Method
cpg	467.57	J/molxK	574.88	Joback Method
cpg	479.75	J/molxK	601.47	Joback Method
cpg	491.27	J/molxK	628.07	Joback Method
cpg	502.15	J/molxK	654.66	Joback Method
cpg	512.43	J/molxK	681.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407334&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407334&amp;Units=SI</a>
<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>

# 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.chemeo.com/cid/125-215-4/Pentafluoropropanamide-N-hept-2-yl.pdf>

Generated by Cheméo on 2024-05-01 16:50:40.316026973 +0000 UTC m=+16871489.236604284.

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