

# Pentafluoropropanamide, N,N-diundecyl-

<b>Inchi:</b>	InChI=1S/C25H46F5NO/c1-3-5-7-9-11-13-15-17-19-21-31(23(32)24(26,27)25(28,29)30)2
<b>InchiKey:</b>	VDIYAMMQNLTLQI-UHFFFAOYSA-N
<b>Formula:</b>	C25H46F5NO
<b>SMILES:</b>	CCCCCCCCCCCN(CCCCCCCCCC)C(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	471.63

## Physical Properties

Property code	Value	Unit	Source
gf	-826.89	kJ/mol	Joback Method
hf	-1602.43	kJ/mol	Joback Method
hfus	65.70	kJ/mol	Joback Method
hvap	73.36	kJ/mol	Joback Method
log10ws	-9.61		Crippen Method
logp	9.074		Crippen Method
mvol	383.510	ml/mol	McGowan Method
pc	713.39	kPa	Joback Method
rinpol	2470.00		NIST Webbook
tb	827.60	K	Joback Method
tc	1016.02	K	Joback Method
tf	461.70	K	Joback Method
vc	1.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1268.22	J/mol×K	827.60	Joback Method
cpg	1290.00	J/mol×K	859.00	Joback Method
cpg	1310.59	J/mol×K	890.41	Joback Method
cpg	1330.08	J/mol×K	921.81	Joback Method
cpg	1348.57	J/mol×K	953.21	Joback Method
cpg	1366.14	J/mol×K	984.62	Joback Method
cpg	1382.88	J/mol×K	1016.02	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308518&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308518&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>hvap:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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/77-352-6/Pentafluoropropanamide-N-N-diundecyl.pdf>

Generated by Cheméo on 2024-04-25 14:34:55.06124706 +0000 UTC m=+16344943.981824371.

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