

# Propanamide, N-(4-fluorophenyl)-2,2,3,3,3-pentafluoro-

Inchi:	InChI=1S/C9H5F6NO/c10-5-1-3-6(4-2-5)16-7(17)8(11,12)9(13,14)15/h1-4H,(H,16,17)
InchiKey:	PBUZXWZWAZFUOL-UHFFFAOYSA-N
Formula:	C9H5F6NO
SMILES:	O=C(Nc1ccc(F)cc1)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	257.13
CAS:	959055-29-9

## Physical Properties

Property code	Value	Unit	Source
gf	-1075.03	kJ/mol	Joback Method
hf	-1257.30	kJ/mol	Joback Method
hfus	23.07	kJ/mol	Joback Method
hvap	44.25	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	2.962		Crippen Method
mcvol	136.080	ml/mol	McGowan Method
pc	2707.03	kPa	Joback Method
rinpol	885.00		NIST Webbook
rinpol	885.00		NIST Webbook
tb	530.18	K	Joback Method
tc	714.58	K	Joback Method
tf	341.10	K	Joback Method
vc	0.558	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.81	J/molxK	530.18	Joback Method
cpg	345.65	J/molxK	560.91	Joback Method
cpg	355.67	J/molxK	591.65	Joback Method
cpg	364.91	J/molxK	622.38	Joback Method
cpg	373.41	J/molxK	653.11	Joback Method
cpg	381.23	J/molxK	683.84	Joback Method
cpg	388.42	J/molxK	714.58	Joback Method

# Sources

<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=C959055299&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C959055299&amp;Units=SI</a>
<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.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>

# 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>h vap:</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>r in pol:</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

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