

# Propanamide, N-(3-methylphenyl)-2,2,3,3,3-pentafluoro-

<b>Inchi:</b>	InChI=1S/C10H8F5NO/c1-6-3-2-4-7(5-6)16-8(17)9(11,12)10(13,14)15/h2-5H,1H3,(H,16,
<b>InchiKey:</b>	UMEFLILOWZCUAN-UHFFFAOYSA-N
<b>Formula:</b>	C10H8F5NO
<b>SMILES:</b>	Cc1cccc(NC(=O)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	253.17

## Physical Properties

Property code	Value	Unit	Source
gf	-871.80	kJ/mol	Joback Method
hf	-1081.83	kJ/mol	Joback Method
hfus	22.58	kJ/mol	Joback Method
hvap	47.30	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.131		Crippen Method
mcvol	148.400	ml/mol	McGowan Method
pc	2568.89	kPa	Joback Method
rinsol	1179.00		NIST Webbook
tb	553.79	K	Joback Method
tc	744.76	K	Joback Method
tf	351.78	K	Joback Method
vc	0.597	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.72	J/molxK	553.79	Joback Method
cpg	383.74	J/molxK	585.62	Joback Method
cpg	394.86	J/molxK	617.45	Joback Method
cpg	405.13	J/molxK	649.27	Joback Method
cpg	414.61	J/molxK	681.10	Joback Method
cpg	423.35	J/molxK	712.93	Joback Method
cpg	431.40	J/molxK	744.76	Joback Method

# Sources

<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=U307330&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307330&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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