

# Acetamide, N-(2-iodo-4-methylphenyl)-2,2,2-trifluoro-

Inchi:	InChI=1S/C9H7F3INO/c1-5-2-3-7(6(13)4-5)14-8(15)9(10,11)12/h2-4H,1H3,(H,14,15)
InchiKey:	DZNFYDLOBOIWCO-UHFFFAOYSA-N
Formula:	C9H7F3INO
SMILES:	<chem>Cc1ccc(NC(=O)C(F)(F)F)c(I)c1</chem>
Mol. weight [g/mol]:	329.06

## Physical Properties

Property code	Value	Unit	Source
gf	-444.95	kJ/mol	Joback Method
hf	-594.82	kJ/mol	Joback Method
hfus	25.26	kJ/mol	Joback Method
hvap	58.04	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.100		Crippen Method
mvol	156.590	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1518.00		NIST Webbook
tb	633.72	K	Joback Method
tc	862.60	K	Joback Method
tf	407.49	K	Joback Method
vc	0.604	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.42	J/mol×K	633.72	Joback Method
cpg	359.32	J/mol×K	671.87	Joback Method
cpg	368.38	J/mol×K	710.01	Joback Method
cpg	376.66	J/mol×K	748.16	Joback Method
cpg	384.24	J/mol×K	786.30	Joback Method
cpg	391.18	J/mol×K	824.45	Joback Method
cpg	397.55	J/mol×K	862.60	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=U307315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307315&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>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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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