

# Acetamide, n-(2,2,2-trifluoro-1,1-diphenylethyl)-

Inchi:	InChI=1S/C16H14F3NO/c1-12(21)20-15(16(17,18)19,13-8-4-2-5-9-13)14-10-6-3-7-11-14
InchiKey:	BMTNKSYHPHYRB-UHFFFAOYSA-N
Formula:	C16H14F3NO
SMILES:	CC(=O)NC(c1ccccc1)(c1ccccc1)C(F)(F)F
Mol. weight [g/mol]:	293.28
CAS:	1995-76-2

## Physical Properties

Property code	Value	Unit	Source
gf	-309.62	kJ/mol	Joback Method
hf	-565.45	kJ/mol	Joback Method
hfus	26.39	kJ/mol	Joback Method
hvap	63.90	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	3.629		Crippen Method
mcvol	205.640	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
tb	714.23	K	Joback Method
tc	942.92	K	Joback Method
tf	432.12	K	Joback Method
vc	0.788	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.66	J/molxK	714.23	Joback Method
cpg	589.18	J/molxK	752.35	Joback Method
cpg	602.41	J/molxK	790.46	Joback Method
cpg	614.47	J/molxK	828.58	Joback Method
cpg	625.50	J/molxK	866.69	Joback Method
cpg	635.62	J/molxK	904.81	Joback Method
cpg	644.96	J/molxK	942.92	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1995762&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1995762&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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