

# 2,2,3,3,3-Pentafluoro-N-[2-bis(2,2,3,3,3-pentafluoro

**Inchi:** InChI=1S/C15H5F15N2O3/c16-10(17,13(22,23)24)7(33)31-5-3-1-2-4-6(5)32(8(34)11(18,  
**InchiKey:** LFKSJSDGPKSEL-UHFFFAOYSA-N  
**Formula:** C15H5F15N2O3  
**SMILES:** O=C(Nc1ccccc1N(C(=O)C(F)(F)C(F)(F)F)C(=O)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F  
**Mol. weight [g/mol]:** 546.19

## Physical Properties

Property code	Value	Unit	Source
gf	-2913.50	kJ/mol	Joback Method
hf	-3338.76	kJ/mol	Joback Method
hfus	42.89	kJ/mol	Joback Method
hvap	60.61	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	5.077		Crippen Method
mcvol	249.670	ml/mol	McGowan Method
pc	1368.70	kPa	Joback Method
rinpola	1190.00		NIST Webbook
rinpola	1190.00		NIST Webbook
tb	768.15	K	Joback Method
tc	943.80	K	Joback Method
tf	556.04	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	777.95	J/molxK	768.15	Joback Method
cpg	786.30	J/molxK	797.43	Joback Method
cpg	793.87	J/molxK	826.70	Joback Method
cpg	800.76	J/molxK	855.98	Joback Method
cpg	807.09	J/molxK	885.25	Joback Method
cpg	812.97	J/molxK	914.53	Joback Method
cpg	818.48	J/molxK	943.80	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=U373043&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373043&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>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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