

# N-(2-Pentafluoropropionyloxy-1-phenyl-ethyl)-ben

**Inchi:** InChI=1S/C17H14F5NO4S/c18-16(19,17(20,21)22)15(24)27-11-14(12-7-3-1-4-8-12)23-2  
**InchiKey:** RBHCTTUDMRKDFZ-UHFFFAOYSA-N  
**Formula:** C17H14F5NO4S  
**SMILES:** O=C(OCC(NS(=O)(=O)c1ccccc1)c1ccccc1)C(F)(F)C(F)(F)F  
**Mol. weight [g/mol]:** 423.35

## Physical Properties

Property code	Value	Unit	Source
gf	-1266.80	kJ/mol	Joback Method
hf	-1569.16	kJ/mol	Joback Method
hfus	44.18	kJ/mol	Joback Method
hvap	85.15	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	3.447		Crippen Method
mcvol	257.230	ml/mol	McGowan Method
pc	2157.31	kPa	Joback Method
rinpol	2217.00		NIST Webbook
rinpol	2217.00		NIST Webbook
tb	805.41	K	Joback Method
tc	1011.33	K	Joback Method
tf	490.36	K	Joback Method
vc	1.018	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	758.09	J/mol×K	805.41	Joback Method
cpg	770.09	J/mol×K	839.73	Joback Method
cpg	780.92	J/mol×K	874.05	Joback Method
cpg	790.65	J/mol×K	908.37	Joback Method
cpg	799.36	J/mol×K	942.69	Joback Method
cpg	807.10	J/mol×K	977.01	Joback Method
cpg	813.96	J/mol×K	1011.33	Joback Method

# Sources

<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=U374417&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374417&amp;Units=SI</a>
<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>

# 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>hvp:</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>rinp:</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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