

# 8-Chlorooctyl 2,3,4,5,6-pentafluorobenzoate

**Inchi:** InChI=1S/C15H16ClF5O2/c16-7-5-3-1-2-4-6-8-23-15(22)9-10(17)12(19)14(21)13(20)11(24)15  
**InchiKey:** YRUIEPYRCAHRFQ-UHFFFAOYSA-N  
**Formula:** C15H16ClF5O2  
**SMILES:** O=C(OCCCCCCCCl)c1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 358.73

## Physical Properties

Property code	Value	Unit	Source
gf	-1080.22	kJ/mol	Joback Method
hf	-1414.84	kJ/mol	Joback Method
hfus	49.09	kJ/mol	Joback Method
hvap	64.03	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.118		Crippen Method
mvol	226.980	ml/mol	McGowan Method
pc	1459.02	kPa	Joback Method
rinpol	1925.00		NIST Webbook
rinpol	1937.00		NIST Webbook
tb	704.25	K	Joback Method
tc	878.93	K	Joback Method
tf	452.86	K	Joback Method
vc	0.930	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.20	J/mol×K	704.25	Joback Method
cpg	624.68	J/mol×K	733.36	Joback Method
cpg	636.54	J/mol×K	762.48	Joback Method
cpg	647.77	J/mol×K	791.59	Joback Method
cpg	658.39	J/mol×K	820.70	Joback Method
cpg	668.40	J/mol×K	849.82	Joback Method
cpg	677.81	J/mol×K	878.93	Joback Method

# Sources

<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=U373587&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373587&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.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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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