

# 10-Chlorodecyl 2,3,4,5,6-pentafluorobenzoate

<b>Inchi:</b>	InChI=1S/C17H20ClF5O2/c18-9-7-5-3-1-2-4-6-8-10-25-17(24)11-12(19)14(21)16(23)15(20)
<b>InchiKey:</b>	ZKMAZQLQJOWAHS-UHFFFAOYSA-N
<b>Formula:</b>	C17H20ClF5O2
<b>SMILES:</b>	O=C(OCCCCCCCCCl)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	386.79

## Physical Properties

Property code	Value	Unit	Source
gf	-1063.38	kJ/mol	Joback Method
hf	-1456.12	kJ/mol	Joback Method
hfus	54.27	kJ/mol	Joback Method
hvap	68.48	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	5.899		Crippen Method
mvol	255.160	ml/mol	McGowan Method
pc	1266.45	kPa	Joback Method
rinpol	2124.00		NIST Webbook
rinpol	2124.00		NIST Webbook
tb	750.01	K	Joback Method
tc	926.79	K	Joback Method
tf	475.40	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	721.06	J/molxK	750.01	Joback Method
cpg	734.62	J/molxK	779.47	Joback Method
cpg	747.45	J/molxK	808.94	Joback Method
cpg	759.57	J/molxK	838.40	Joback Method
cpg	770.99	J/molxK	867.86	Joback Method
cpg	781.71	J/molxK	897.33	Joback Method
cpg	791.75	J/molxK	926.79	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=U373591&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373591&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>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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