

# 1,4-Dioxane-2,3-diol, bis(chlorodifluoroacetate)

<b>Inchi:</b>	InChI=1S/C8H6Cl2F4O6/c9-7(11,12)5(15)19-3-4(18-2-1-17-3)20-6(16)8(10,13)14/h3-4H
<b>InchiKey:</b>	OTKVBLJKNZUMKM-UHFFFAOYSA-N
<b>Formula:</b>	C8H6Cl2F4O6
<b>SMILES:</b>	O=C(OC1OCCOC1OC(=O)C(F)(F)Cl)C(F)(F)Cl
<b>Mol. weight [g/mol]:</b>	345.03

## Physical Properties

Property code	Value	Unit	Source
gf	-1404.28	kJ/mol	Joback Method
hf	-1761.49	kJ/mol	Joback Method
hfus	36.80	kJ/mol	Joback Method
hvap	63.76	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.435		Crippen Method
mvol	170.900	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
rinpol	1297.00		NIST Webbook
rinpol	1297.00		NIST Webbook
tb	669.28	K	Joback Method
tc	876.18	K	Joback Method
tf	447.56	K	Joback Method
vc	0.653	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	458.34	J/mol×K	669.28	Joback Method
cpg	468.95	J/mol×K	703.76	Joback Method
cpg	478.66	J/mol×K	738.25	Joback Method
cpg	487.49	J/mol×K	772.73	Joback Method
cpg	495.47	J/mol×K	807.21	Joback Method
cpg	502.63	J/mol×K	841.70	Joback Method
cpg	508.99	J/mol×K	876.18	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.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>
<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=U375753&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375753&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>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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