

# 1,5-Pentanediol, O,O'-bis(3-chloro-2-fluorobenzoyl)-

**Inchi:** InChI=1S/C19H16Cl2F2O4/c20-14-8-4-6-12(16(14)22)18(24)26-10-2-1-3-11-27-19(25)13

**InchiKey:** WWMLEEMKWONWSV-UHFFFAOYSA-N

**Formula:** C19H16Cl2F2O4

**SMILES:** O=C(OCCCCOC(=O)c1cccc(Cl)c1F)c1cccc(Cl)c1F

**Mol. weight [g/mol]:** 417.23

## Physical Properties

Property code	Value	Unit	Source
gf	-585.92	kJ/mol	Joback Method
hf	-921.61	kJ/mol	Joback Method
hfus	51.62	kJ/mol	Joback Method
hvap	90.54	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	5.456		Crippen Method
mcvol	273.950	ml/mol	McGowan Method
pc	1584.75	kPa	Joback Method
rinsol	3026.00		NIST Webbook
tb	933.38	K	Joback Method
tc	1156.94	K	Joback Method
tf	612.15	K	Joback Method
vc	1.065	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	778.56	J/mol×K	933.38	Joback Method
cpg	788.81	J/mol×K	970.64	Joback Method
cpg	797.89	J/mol×K	1007.90	Joback Method
cpg	805.83	J/mol×K	1045.16	Joback Method
cpg	812.64	J/mol×K	1082.42	Joback Method
cpg	818.34	J/mol×K	1119.68	Joback Method
cpg	822.96	J/mol×K	1156.94	Joback Method

# Sources

<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=U357336&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357336&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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