

# Pimelic acid, 5-chloro-2-nitrobenzyl pentyl ester

Inchi:	InChI=1S/C19H26ClNO6/c1-2-3-7-12-26-18(22)8-5-4-6-9-19(23)27-14-15-13-16(20)10-1
InchiKey:	KMSTWFPPFXCRMZ-UHFFFAOYSA-N
Formula:	C19H26ClNO6
SMILES:	CCCCCOC(=O)CCCCC(=O)OCc1cc(Cl)ccc1[N+](=O)[O-]
Mol. weight [g/mol]:	399.87

## Physical Properties

Property code	Value	Unit	Source
gf	-241.97	kJ/mol	Joback Method
hf	-738.00	kJ/mol	Joback Method
hfus	59.36	kJ/mol	Joback Method
hvap	100.78	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	4.975		Crippen Method
mvol	299.350	ml/mol	McGowan Method
pc	1398.55	kPa	Joback Method
rinpol	2883.00		NIST Webbook
rinpol	2883.00		NIST Webbook
tb	1012.61	K	Joback Method
tc	1243.24	K	Joback Method
tf	673.20	K	Joback Method
vc	1.171	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.42	J/molxK	1012.61	Joback Method
cpg	959.47	J/molxK	1051.05	Joback Method
cpg	969.17	J/molxK	1089.49	Joback Method
cpg	977.55	J/molxK	1127.93	Joback Method
cpg	984.64	J/molxK	1166.36	Joback Method
cpg	990.48	J/molxK	1204.80	Joback Method
cpg	995.09	J/molxK	1243.24	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.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=U406701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406701&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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