

# Pimelic acid, 2-nitro-5-fluorophenyl pentyl ester

Inchi:	InChI=1S/C18H24FNO6/c1-2-3-7-12-25-17(21)8-5-4-6-9-18(22)26-16-13-14(19)10-11-15
InchiKey:	GHYGYEPVQJMJGP-UHFFFAOYSA-N
Formula:	C18H24FNO6
SMILES:	CCCCCOC(=O)CCCCC(=O)Oc1cc(F)ccc1[N+](=O)[O-]
Mol. weight [g/mol]:	369.38

## Physical Properties

Property code	Value	Unit	Source
gf	-433.27	kJ/mol	Joback Method
hf	-897.73	kJ/mol	Joback Method
hfus	55.65	kJ/mol	Joback Method
hvap	93.35	kJ/mol	Joback Method
log10ws	-5.82		Crippen Method
logp	4.323		Crippen Method
mcvol	274.790	ml/mol	McGowan Method
pc	1495.35	kPa	Joback Method
rinpola	2641.00		NIST Webbook
rinpola	2641.00		NIST Webbook
tb	951.57	K	Joback Method
tc	1171.31	K	Joback Method
tf	632.60	K	Joback Method
vc	1.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	876.18	J/molxK	951.57	Joback Method
cpg	888.12	J/molxK	988.19	Joback Method
cpg	898.82	J/molxK	1024.82	Joback Method
cpg	908.30	J/molxK	1061.44	Joback Method
cpg	916.59	J/molxK	1098.06	Joback Method
cpg	923.72	J/molxK	1134.69	Joback Method
cpg	929.69	J/molxK	1171.31	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=U416476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416476&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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