

# Pimelic acid, octyl phenethyl ester

<b>Inchi:</b>	InChI=1S/C23H36O4/c1-2-3-4-5-6-13-19-26-22(24)16-11-8-12-17-23(25)27-20-18-21-14
<b>InchiKey:</b>	NJTGYRWKSDSZFL-UHFFFAOYSA-N
<b>Formula:</b>	C23H36O4
<b>SMILES:</b>	CCCCCCCCOC(=O)CCCCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	376.53

## Physical Properties

Property code	Value	Unit	Source
gf	-212.65	kJ/mol	Joback Method
hf	-771.12	kJ/mol	Joback Method
hfus	54.94	kJ/mol	Joback Method
hvap	87.38	kJ/mol	Joback Method
log10ws	-6.28		Crippen Method
logp	5.627		Crippen Method
mvol	326.050	ml/mol	McGowan Method
pc	1108.89	kPa	Joback Method
rinpol	2973.00		NIST Webbook
rinpol	2973.00		NIST Webbook
tb	904.90	K	Joback Method
tc	1109.91	K	Joback Method
tf	519.71	K	Joback Method
vc	1.264	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1058.61	J/molxK	904.90	Joback Method
cpg	1075.49	J/molxK	939.07	Joback Method
cpg	1091.08	J/molxK	973.24	Joback Method
cpg	1105.44	J/molxK	1007.40	Joback Method
cpg	1118.60	J/molxK	1041.57	Joback Method
cpg	1130.59	J/molxK	1075.74	Joback Method
cpg	1141.46	J/molxK	1109.91	Joback Method
dvisc	0.0005005	Paxs	519.71	Joback Method

dvisc	0.0002518	Paxs	583.91	Joback Method
dvisc	0.0001452	Paxs	648.11	Joback Method
dvisc	0.0000925	Paxs	712.30	Joback Method
dvisc	0.0000634	Paxs	776.50	Joback Method
dvisc	0.0000461	Paxs	840.70	Joback Method
dvisc	0.0000350	Paxs	904.90	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=U416501&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416501&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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