

# Pimelic acid, ethyl 1-naphthyl ester

<b>Inchi:</b>	InChI=1S/C19H22O4/c1-2-22-18(20)13-4-3-5-14-19(21)23-17-12-8-10-15-9-6-7-11-16(15)
<b>InchiKey:</b>	BNWVJARYOBMIPB-UHFFFAOYSA-N
<b>Formula:</b>	C19H22O4
<b>SMILES:</b>	CCOC(=O)CCCCC(=O)Oc1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	314.38

## Physical Properties

Property code	Value	Unit	Source
gf	-149.31	kJ/mol	Joback Method
hf	-508.96	kJ/mol	Joback Method
hfus	41.21	kJ/mol	Joback Method
hvap	80.78	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	4.259		Crippen Method
mvol	250.230	ml/mol	McGowan Method
pc	1752.14	kPa	Joback Method
rinpol	2538.00		NIST Webbook
rinpol	2538.00		NIST Webbook
tb	837.34	K	Joback Method
tc	1052.26	K	Joback Method
tf	519.85	K	Joback Method
vc	0.962	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	745.47	J/molxK	837.34	Joback Method
cpg	806.90	J/molxK	1016.44	Joback Method
cpg	796.52	J/molxK	980.62	Joback Method
cpg	785.24	J/molxK	944.80	Joback Method
cpg	773.00	J/molxK	908.98	Joback Method
cpg	759.76	J/molxK	873.16	Joback Method
cpg	816.41	J/molxK	1052.26	Joback Method
dvisc	0.0001229	Paxs	837.34	Joback Method

dvisc	0.0001506	Paxs	784.42	Joback Method
dvisc	0.0001900	Paxs	731.51	Joback Method
dvisc	0.0002485	Paxs	678.60	Joback Method
dvisc	0.0003403	Paxs	625.68	Joback Method
dvisc	0.0004937	Paxs	572.76	Joback Method
dvisc	0.0007727	Paxs	519.85	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=U416716&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416716&amp;Units=SI</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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