

# Pimelic acid, ethyl hexyl ester

<b>Inchi:</b>	InChI=1S/C15H28O4/c1-3-5-6-10-13-19-15(17)12-9-7-8-11-14(16)18-4-2/h3-13H2,1-2H3
<b>InchiKey:</b>	UNVQGXYENKZPR-UHFFFAOYSA-N
<b>Formula:</b>	C15H28O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	272.38

## Physical Properties

Property code	Value	Unit	Source
gf	-392.42	kJ/mol	Joback Method
hf	-842.53	kJ/mol	Joback Method
hfus	40.18	kJ/mol	Joback Method
hvap	67.30	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.623		Crippen Method
mvol	237.090	ml/mol	McGowan Method
pc	1518.75	kPa	Joback Method
rinpol	1502.00		NIST Webbook
rinpol	1502.00		NIST Webbook
tb	695.18	K	Joback Method
tc	871.05	K	Joback Method
tf	403.13	K	Joback Method
vc	0.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.29	J/molxK	695.18	Joback Method
cpg	693.41	J/molxK	724.49	Joback Method
cpg	708.76	J/molxK	753.80	Joback Method
cpg	723.36	J/molxK	783.12	Joback Method
cpg	737.19	J/molxK	812.43	Joback Method
cpg	750.28	J/molxK	841.74	Joback Method
cpg	762.62	J/molxK	871.05	Joback Method
dvisc	0.0013699	Paxs	403.13	Joback Method

dvisc	0.0007100	Paxs	451.81	Joback Method
dvisc	0.0004181	Paxs	500.48	Joback Method
dvisc	0.0002705	Paxs	549.15	Joback Method
dvisc	0.0001878	Paxs	597.83	Joback Method
dvisc	0.0001378	Paxs	646.50	Joback Method
dvisc	0.0001056	Paxs	695.18	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=U406431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406431&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

Latest version available from:

<https://www.chemeo.com/cid/90-112-7/Pimelic-acid-ethyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-05-02 01:38:59.059470052 +0000 UTC m=+16903187.980047367.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.