

# Adipic acid, dec-4-enyl propyl ester

<b>Inchi:</b>	InChI=1S/C19H34O4/c1-3-5-6-7-8-9-10-13-17-23-19(21)15-12-11-14-18(20)22-16-4-2/h
<b>InchiKey:</b>	HSJKTNUPGOTHQ-CMDGGOBGSA-N
<b>Formula:</b>	C19H34O4
<b>SMILES:</b>	CCCCC=CCCCOC(=O)CCCC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	-278.52	kJ/mol	Joback Method
hf	-807.87	kJ/mol	Joback Method
hfus	50.74	kJ/mol	Joback Method
hvap	76.16	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.960		Crippen Method
mcvol	289.150	ml/mol	McGowan Method
pc	1190.70	kPa	Joback Method
rinsol	2223.00		NIST Webbook
tb	790.86	K	Joback Method
tc	974.63	K	Joback Method
tf	443.13	K	Joback Method
vc	1.127	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	884.09	J/molxK	790.86	Joback Method
cpg	961.25	J/molxK	944.00	Joback Method
cpg	947.61	J/molxK	913.37	Joback Method
cpg	933.10	J/molxK	882.74	Joback Method
cpg	917.69	J/molxK	852.12	Joback Method
cpg	901.36	J/molxK	821.49	Joback Method
cpg	974.04	J/molxK	974.63	Joback Method
dvisc	0.0000533	Paxs	790.86	Joback Method
dvisc	0.0000707	Paxs	732.90	Joback Method

dvisc	0.0000983	Paxs	674.95	Joback Method
dvisc	0.0001453	Paxs	617.00	Joback Method
dvisc	0.0002331	Paxs	559.04	Joback Method
dvisc	0.0004171	Paxs	501.08	Joback Method
dvisc	0.0008689	Paxs	443.13	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=U354136&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354136&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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