

# Sebacic acid, hexadecyl 4-methylpent-2-yl ester

Inchi:	InChI=1S/C32H62O4/c1-5-6-7-8-9-10-11-12-13-14-15-18-21-24-27-35-31(33)25-22-19-1
InchiKey:	PCSYDXXGRSFCHM-UHFFFAOYSA-N
Formula:	C32H62O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCCCCCC(=O)OC(C)CC(C)C
Mol. weight [g/mol]:	510.83

## Physical Properties

Property code	Value	Unit	Source
gf	-254.16	kJ/mol	Joback Method
hf	-1203.97	kJ/mol	Joback Method
hfus	77.16	kJ/mol	Joback Method
hvap	104.36	kJ/mol	Joback Method
log10ws	-10.81		Crippen Method
logp	10.109		Crippen Method
mvol	476.620	ml/mol	McGowan Method
pc	571.78	kPa	Joback Method
rinpol	3447.00		NIST Webbook
tb	1083.26	K	Joback Method
tc	1374.80	K	Joback Method
tf	564.72	K	Joback Method
vc	1.863	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1736.98	J/molxK	1083.26	Joback Method
cpg	1833.76	J/molxK	1326.21	Joback Method
cpg	1819.84	J/molxK	1277.62	Joback Method
cpg	1803.37	J/molxK	1229.03	Joback Method
cpg	1784.18	J/molxK	1180.44	Joback Method
cpg	1762.10	J/molxK	1131.85	Joback Method
cpg	1845.29	J/molxK	1374.80	Joback Method
dvisc	0.0000068	Paxs	1083.26	Joback Method
dvisc	0.0000095	Paxs	996.84	Joback Method

dvisc	0.0000140	Paxs	910.41	Joback Method
dvisc	0.0000226	Paxs	823.99	Joback Method
dvisc	0.0000407	Paxs	737.57	Joback Method
dvisc	0.0000857	Paxs	651.14	Joback Method
dvisc	0.0002266	Paxs	564.72	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=U355363&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355363&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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