

# Sebacic acid, isoheptyl pent-4-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C21H38O4/c1-5-13-19(4)25-21(23)16-11-9-7-6-8-10-15-20(22)24-17-12-14-18
<b>InchiKey:</b>	KQUSCIUECLIXIX-UHFFFAOYSA-N
<b>Formula:</b>	C21H38O4
<b>SMILES:</b>	C=CCC(C)OC(=O)CCCCCCCC(=O)OCCCC(C)C
<b>Mol. weight [g/mol]:</b>	354.52

## Physical Properties

Property code	Value	Unit	Source
gf	-258.94	kJ/mol	Joback Method
hf	-851.50	kJ/mol	Joback Method
hfus	47.39	kJ/mol	Joback Method
hvap	79.21	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.594		Crippen Method
mcvol	317.330	ml/mol	McGowan Method
pc	1051.41	kPa	Joback Method
rinsol	2358.00		NIST Webbook
tb	828.26	K	Joback Method
tc	1016.75	K	Joback Method
tf	438.99	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1003.75	J/mol×K	828.26	Joback Method
cpg	1021.99	J/mol×K	859.67	Joback Method
cpg	1039.14	J/mol×K	891.09	Joback Method
cpg	1055.20	J/mol×K	922.50	Joback Method
cpg	1070.20	J/mol×K	953.92	Joback Method
cpg	1084.17	J/mol×K	985.33	Joback Method
cpg	1097.13	J/mol×K	1016.75	Joback Method
dvisc	0.0010680	Paxs	438.99	Joback Method
dvisc	0.0004385	Paxs	503.87	Joback Method

dvisc	0.0002206	Paxs	568.75	Joback Method
dvisc	0.0001277	Paxs	633.62	Joback Method
dvisc	0.0000819	Paxs	698.50	Joback Method
dvisc	0.0000566	Paxs	763.38	Joback Method
dvisc	0.0000414	Paxs	828.26	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=U355952&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355952&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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