

# Sebacic acid, 2,2-dichloroethyl hexyl ester

<b>Inchi:</b>	InChI=1S/C18H32Cl2O4/c1-2-3-4-11-14-23-17(21)12-9-7-5-6-8-10-13-18(22)24-15-16(19)
<b>InchiKey:</b>	QWXGZEQGDSGQHP-UHFFFAOYSA-N
<b>Formula:</b>	C18H32Cl2O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCCCCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	383.35

## Physical Properties

Property code	Value	Unit	Source
gf	-393.46	kJ/mol	Joback Method
hf	-941.21	kJ/mol	Joback Method
hfus	52.82	kJ/mol	Joback Method
hvap	82.36	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.578		Crippen Method
mvol	303.840	ml/mol	McGowan Method
pc	1172.83	kPa	Joback Method
rinpol	2542.00		NIST Webbook
tb	838.24	K	Joback Method
tc	1030.31	K	Joback Method
tf	481.78	K	Joback Method
vc	1.183	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	911.10	J/molxK	838.24	Joback Method
cpg	926.78	J/molxK	870.25	Joback Method
cpg	941.44	J/molxK	902.26	Joback Method
cpg	955.10	J/molxK	934.28	Joback Method
cpg	967.78	J/molxK	966.29	Joback Method
cpg	979.49	J/molxK	998.30	Joback Method
cpg	990.25	J/molxK	1030.31	Joback Method
dvisc	0.0007539	Paxs	481.78	Joback Method
dvisc	0.0003701	Paxs	541.19	Joback Method

dvisc	0.0002092	Paxs	600.60	Joback Method
dvisc	0.0001310	Paxs	660.01	Joback Method
dvisc	0.0000886	Paxs	719.42	Joback Method
dvisc	0.0000637	Paxs	778.83	Joback Method
dvisc	0.0000479	Paxs	838.24	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355470&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355470&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>
<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>

## 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/47-618-4/Sebacic-acid-2-2-dichloroethyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-23 16:01:24.66170359 +0000 UTC m=+16177333.582280905.

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