

# (Z)-Icos-11-en-1-yl oleate

<b>Inchi:</b>	InChI=1S/C38H72O2/c1-3-5-7-9-11-13-15-17-19-20-21-23-25-27-29-31-33-35-37-40-38(
<b>InchiKey:</b>	XWRULJGKJQBUNM-KKGNMLJQSA-N
<b>Formula:</b>	C38H72O2
<b>SMILES:</b>	CCCCCCCC=CCCCCCCCCOC(=O)CCCCCCCC=CCCCCCCC
<b>Mol. weight [g/mol]:</b>	560.98
<b>CAS:</b>	130416-67-0

## Physical Properties

Property code	Value	Unit	Source
gf	195.60	kJ/mol	Joback Method
hf	-838.01	kJ/mol	Joback Method
hfus	97.37	kJ/mol	Joback Method
hvap	109.25	kJ/mol	Joback Method
log10ws	-14.30		Crippen Method
logp	13.385		Crippen Method
mcvol	545.120	ml/mol	McGowan Method
pc	449.63	kPa	Joback Method
rinpol	3993.20		NIST Webbook
rinpol	3993.20		NIST Webbook
tb	1153.45	K	Joback Method
tc	1517.37	K	Joback Method
tf	580.02	K	Joback Method
vc	2.147	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2037.38	J/molxK	1153.45	Joback Method
cpg	2074.96	J/molxK	1214.10	Joback Method
cpg	2109.88	J/molxK	1274.76	Joback Method
cpg	2142.76	J/molxK	1335.41	Joback Method
cpg	2174.24	J/molxK	1396.07	Joback Method
cpg	2204.95	J/molxK	1456.72	Joback Method
cpg	2235.52	J/molxK	1517.37	Joback Method

dvisc	0.0001329	Paxs	580.02	Joback Method
dvisc	0.0000476	Paxs	675.59	Joback Method
dvisc	0.0000220	Paxs	771.16	Joback Method
dvisc	0.0000120	Paxs	866.74	Joback Method
dvisc	0.0000074	Paxs	962.31	Joback Method
dvisc	0.0000050	Paxs	1057.88	Joback Method
dvisc	0.0000036	Paxs	1153.45	Joback Method

## Sources

<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=C130416670&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C130416670&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>

## 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>mvol:</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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