

# (Z)-(Z)-icos-11-en-1-yl icos-11-enoate

<b>Inchi:</b>	InChI=1S/C40H76O2/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-37-39-42-40
<b>InchiKey:</b>	JZPSREGMTSRPQU-CLFAGFIQSA-N
<b>Formula:</b>	C40H76O2
<b>SMILES:</b>	CCCCCCCC=CCCCCCCCCOC(=O)CCCCCCCC=CCCCCCCC
<b>Mol. weight [g/mol]:</b>	589.03
<b>CAS:</b>	173443-70-4

## Physical Properties

Property code	Value	Unit	Source
gf	212.44	kJ/mol	Joback Method
hf	-879.29	kJ/mol	Joback Method
hfus	102.55	kJ/mol	Joback Method
hvap	113.71	kJ/mol	Joback Method
log10ws	-15.14		Crippen Method
logp	14.165		Crippen Method
mcvol	573.300	ml/mol	McGowan Method
pc	415.14	kPa	Joback Method
rinpol	4417.60		NIST Webbook
rinpol	4417.60		NIST Webbook
tb	1199.21	K	Joback Method
tc	1618.93	K	Joback Method
tf	602.56	K	Joback Method
vc	2.260	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2176.62	J/molxK	1199.21	Joback Method
cpg	2371.50	J/molxK	1548.98	Joback Method
cpg	2334.37	J/molxK	1479.03	Joback Method
cpg	2297.34	J/molxK	1409.07	Joback Method
cpg	2259.38	J/molxK	1339.12	Joback Method
cpg	2219.48	J/molxK	1269.16	Joback Method
cpg	2409.74	J/molxK	1618.93	Joback Method

dvisc	0.0000026	Paxs	1199.21	Joback Method
dvisc	0.0000036	Paxs	1099.77	Joback Method
dvisc	0.0000054	Paxs	1000.33	Joback Method
dvisc	0.0000087	Paxs	900.88	Joback Method
dvisc	0.0000160	Paxs	801.44	Joback Method
dvisc	0.0000347	Paxs	702.00	Joback Method
dvisc	0.0000976	Paxs	602.56	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C173443704&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C173443704&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

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