

# 2-(2-Ethoxyethoxy)ethyl 3,5,5-trimethylhexanoate

Inchi:	InChI=1S/C15H30O4/c1-6-17-7-8-18-9-10-19-14(16)11-13(2)12-15(3,4)5/h13H,6-12H2,1
InchiKey:	KJLRYXKSMZZDAZ-UHFFFAOYSA-N
Formula:	C15H30O4
SMILES:	CCOCCOCCOC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	274.40

## Physical Properties

Property code	Value	Unit	Source
gf	-368.10	kJ/mol	Joback Method
hf	-876.20	kJ/mol	Joback Method
hfus	28.83	kJ/mol	Joback Method
hvap	61.28	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	3.045		Crippen Method
mcvol	241.390	ml/mol	McGowan Method
pc	1457.90	kPa	Joback Method
rinpol	1691.00		NIST Webbook
tb	660.06	K	Joback Method
tc	837.09	K	Joback Method
tf	362.85	K	Joback Method
vc	0.918	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.02	J/molxK	660.06	Joback Method
cpg	701.77	J/molxK	689.57	Joback Method
cpg	718.68	J/molxK	719.07	Joback Method
cpg	734.76	J/molxK	748.58	Joback Method
cpg	750.03	J/molxK	778.08	Joback Method
cpg	764.49	J/molxK	807.59	Joback Method
cpg	778.16	J/molxK	837.09	Joback Method
dvisc	0.0016845	Paxs	362.85	Joback Method
dvisc	0.0007091	Paxs	412.38	Joback Method

dvisc	0.0003594	Paxs	461.92	Joback Method
dvisc	0.0002078	Paxs	511.45	Joback Method
dvisc	0.0001323	Paxs	560.99	Joback Method
dvisc	0.0000907	Paxs	610.52	Joback Method
dvisc	0.0000657	Paxs	660.06	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=U378256&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378256&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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