

# 2-Ethoxyethyl 3,5,5-trimethylhexanoate

<b>Inchi:</b>	InChI=1S/C13H26O3/c1-6-15-7-8-16-12(14)9-11(2)10-13(3,4)5/h11H,6-10H2,1-5H3
<b>InchiKey:</b>	HJZJPDVJUZZKWJK-UHFFFAOYSA-N
<b>Formula:</b>	C13H26O3
<b>SMILES:</b>	CCOCCOC(=O)CC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	230.34

## Physical Properties

Property code	Value	Unit	Source
gf	-279.94	kJ/mol	Joback Method
hf	-702.70	kJ/mol	Joback Method
hfus	22.46	kJ/mol	Joback Method
hvap	54.41	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	3.029		Crippen Method
mcvol	207.340	ml/mol	McGowan Method
pc	1721.73	kPa	Joback Method
rinpol	1422.00		NIST Webbook
rinpol	1422.00		NIST Webbook
tb	591.88	K	Joback Method
tc	771.51	K	Joback Method
tf	318.08	K	Joback Method
vc	0.788	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	546.68	J/molxK	591.88	Joback Method
cpg	563.84	J/molxK	621.82	Joback Method
cpg	580.20	J/molxK	651.76	Joback Method
cpg	595.80	J/molxK	681.70	Joback Method
cpg	610.64	J/molxK	711.64	Joback Method
cpg	624.74	J/molxK	741.58	Joback Method
cpg	638.12	J/molxK	771.51	Joback Method
dvisc	0.0032170	Paxs	318.08	Joback Method

dvisc	0.0012969	Paxs	363.71	Joback Method
dvisc	0.0006402	Paxs	409.35	Joback Method
dvisc	0.0003641	Paxs	454.98	Joback Method
dvisc	0.0002295	Paxs	500.61	Joback Method
dvisc	0.0001563	Paxs	546.25	Joback Method
dvisc	0.0001129	Paxs	591.88	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=U378271&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378271&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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