

# Hexanoic acid, 2-ethylhexyl ester

<b>Other names:</b>	2-Ethylhexyl caproate 2-ethylhexyl hexanoate
<b>Inchi:</b>	InChI=1S/C14H28O2/c1-4-7-9-11-14(15)16-12-13(6-3)10-8-5-2/h13H,4-12H2,1-3H3
<b>InchiKey:</b>	QRNFTMKPBPCPJO-UHFFFAOYSA-N
<b>Formula:</b>	C14H28O2
<b>SMILES:</b>	CCCCC(=O)OCC(CC)CCCC
<b>Mol. weight [g/mol]:</b>	228.37
<b>CAS:</b>	16397-75-4

## Physical Properties

Property code	Value	Unit	Source
gf	-169.36	kJ/mol	Joback Method
hf	-582.37	kJ/mol	Joback Method
hfus	31.28	kJ/mol	Joback Method
hvap	55.53	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	4.326		Crippen Method
mvol	215.560	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
rinpol	1497.00		NIST Webbook
tb	595.57	K	Joback Method
tc	766.26	K	Joback Method
tf	304.70	K	Joback Method
vc	0.838	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.35	J/molxK	595.57	Joback Method
cpg	584.55	J/molxK	624.02	Joback Method
cpg	601.04	J/molxK	652.47	Joback Method
cpg	616.82	J/molxK	680.91	Joback Method
cpg	631.92	J/molxK	709.36	Joback Method
cpg	646.34	J/molxK	737.81	Joback Method

cpg	660.10	J/mol×K	766.26	Joback Method
dvisc	0.0037349	Paxs	304.70	Joback Method
dvisc	0.0014934	Paxs	353.18	Joback Method
dvisc	0.0007451	Paxs	401.66	Joback Method
dvisc	0.0004318	Paxs	450.13	Joback Method
dvisc	0.0002782	Paxs	498.61	Joback Method
dvisc	0.0001938	Paxs	547.09	Joback Method
dvisc	0.0001432	Paxs	595.57	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16397754&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16397754&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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