

# 2-Ethylbutyric acid, hept-4-yl ester

<b>Inchi:</b>	InChI=1S/C13H26O2/c1-5-9-12(10-6-2)15-13(14)11(7-3)8-4/h11-12H,5-10H2,1-4H3
<b>InchiKey:</b>	BIGGXOMPVEAQL-UHFFFAOYSA-N
<b>Formula:</b>	C13H26O2
<b>SMILES:</b>	CCCC(CCC)OC(=O)C(CC)CC
<b>Mol. weight [g/mol]:</b>	214.34

## Physical Properties

Property code	Value	Unit	Source
gf	-180.22	kJ/mol	Joback Method
hf	-567.01	kJ/mol	Joback Method
hfus	25.17	kJ/mol	Joback Method
hvap	52.91	kJ/mol	Joback Method
log10ws	-4.00		Crippen Method
logp	3.935		Crippen Method
mcvol	201.470	ml/mol	McGowan Method
pc	1730.34	kPa	Joback Method
rinqol	1250.00		NIST Webbook
tb	572.25	K	Joback Method
tc	746.93	K	Joback Method
tf	278.43	K	Joback Method
vc	0.775	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	515.40	J/molxK	572.25	Joback Method
cpg	593.36	J/molxK	717.82	Joback Method
cpg	579.14	J/molxK	688.70	Joback Method
cpg	564.24	J/molxK	659.59	Joback Method
cpg	548.66	J/molxK	630.48	Joback Method
cpg	532.39	J/molxK	601.36	Joback Method
cpg	606.91	J/molxK	746.93	Joback Method
dvisc	0.0001494	Paxs	572.25	Joback Method
dvisc	0.0002064	Paxs	523.28	Joback Method

dvisc	0.0003050	Paxs	474.31	Joback Method
dvisc	0.0004930	Paxs	425.34	Joback Method
dvisc	0.0009030	Paxs	376.37	Joback Method
dvisc	0.0019823	Paxs	327.40	Joback Method
dvisc	0.0057377	Paxs	278.43	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=U370523&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370523&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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