

# ethyl propyl succinate

<b>Inchi:</b>	InChI=1S/C9H16O4/c1-3-7-13-9(11)6-5-8(10)12-4-2/h3-7H2,1-2H3
<b>InchiKey:</b>	JQFCZPOMQIZGQJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O4
<b>SMILES:</b>	CCCOC(=O)CCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	188.22

## Physical Properties

Property code	Value	Unit	Source
gf	-442.94	kJ/mol	Joback Method
hf	-718.69	kJ/mol	Joback Method
hfus	24.64	kJ/mol	Joback Method
hvap	53.94	kJ/mol	Joback Method
log10ws	-1.31		Crippen Method
logp	1.283		Crippen Method
mcvol	152.550	ml/mol	McGowan Method
pc	2525.19	kPa	Joback Method
ripol	1757.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1767.00		NIST Webbook
ripol	1757.00		NIST Webbook
ripol	1767.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1757.00		NIST Webbook
tb	557.90	K	Joback Method
tc	739.72	K	Joback Method
tf	335.51	K	Joback Method
vc	0.588	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.05	J/mol×K	557.90	Joback Method
cpg	380.43	J/mol×K	588.20	Joback Method
cpg	392.33	J/mol×K	618.51	Joback Method

cpg	403.74	J/molxK	648.81	Joback Method
cpg	414.66	J/molxK	679.11	Joback Method
cpg	425.08	J/molxK	709.42	Joback Method
cpg	435.00	J/molxK	739.72	Joback Method
dvisc	0.0019834	Paxs	335.51	Joback Method
dvisc	0.0011310	Paxs	372.57	Joback Method
dvisc	0.0007139	Paxs	409.64	Joback Method
dvisc	0.0004864	Paxs	446.70	Joback Method
dvisc	0.0003515	Paxs	483.77	Joback Method
dvisc	0.0002660	Paxs	520.84	Joback Method
dvisc	0.0002089	Paxs	557.90	Joback Method

## Sources

<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=R210590&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R210590&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>

## 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>ripol:</b>	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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