

# 3-Ethoxypropanal

<b>Other names:</b>	Propanal, 3-ethoxy 3-ethoxypropionaldehyde
<b>Inchi:</b>	InChI=1S/C5H10O2/c1-2-7-5-3-4-6/h4H,2-3,5H2,1H3
<b>InchiKey:</b>	RKSGQXSDRYHVMTM-UHFFFAOYSA-N
<b>Formula:</b>	C5H10O2
<b>SMILES:</b>	CCOCCC=O
<b>Mol. weight [g/mol]:</b>	102.13
<b>CAS:</b>	2806-85-1

## Physical Properties

Property code	Value	Unit	Source
gf	-213.30	kJ/mol	Joback Method
hf	-364.33	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	35.85	kJ/mol	Joback Method
log10ws	-0.28		Crippen Method
logp	0.612		Crippen Method
mvol	88.750	ml/mol	McGowan Method
pc	3713.49	kPa	Joback Method
ripol	1175.00		NIST Webbook
ripol	1153.00		NIST Webbook
ripol	1191.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1185.00		NIST Webbook
tb	384.88	K	Joback Method
tc	558.32	K	Joback Method
tf	210.34	K	Joback Method
vc	0.350	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.62	J/molxK	384.88	Joback Method

cpg	173.77	J/molxK	413.79	Joback Method
cpg	181.68	J/molxK	442.69	Joback Method
cpg	189.36	J/molxK	471.60	Joback Method
cpg	196.81	J/molxK	500.50	Joback Method
cpg	204.01	J/molxK	529.41	Joback Method
cpg	210.97	J/molxK	558.32	Joback Method
dvisc	0.0030878	Paxs	210.34	Joback Method
dvisc	0.0016395	Paxs	239.43	Joback Method
dvisc	0.0009985	Paxs	268.52	Joback Method
dvisc	0.0006700	Paxs	297.61	Joback Method
dvisc	0.0004827	Paxs	326.70	Joback Method
dvisc	0.0003669	Paxs	355.79	Joback Method
dvisc	0.0002907	Paxs	384.88	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=C2806851&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2806851&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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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