

# 2-(2-(2-decyloxy-ethoxy)-ethoxy)-ethanol, acetate

<b>Other names:</b>	Triethylene glycol, decyl ether, acetate
<b>Inchi:</b>	InChI=1S/C18H36O5/c1-3-4-5-6-7-8-9-10-11-20-12-13-21-14-15-22-16-17-23-18(2)19/h3
<b>InchiKey:</b>	FSXXCEPCQCGHQO-UHFFFAOYSA-N
<b>Formula:</b>	C18H36O5
<b>SMILES:</b>	CCCCCCCCCOCCOCCOCCOC(C)=O
<b>Mol. weight [g/mol]:</b>	332.48

## Physical Properties

Property code	Value	Unit	Source
gf	-448.24	kJ/mol	Joback Method
hf	-1056.31	kJ/mol	Joback Method
hfus	48.73	kJ/mol	Joback Method
hvap	72.05	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.740		Crippen Method
mcvol	289.530	ml/mol	McGowan Method
pc	1148.32	kPa	Joback Method
rinpol	2287.40		NIST Webbook
tb	754.79	K	Joback Method
tc	928.97	K	Joback Method
tf	431.47	K	Joback Method
vc	1.121	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	885.98	J/molxK	754.79	Joback Method
cpg	904.27	J/molxK	783.82	Joback Method
cpg	921.64	J/molxK	812.85	Joback Method
cpg	938.06	J/molxK	841.88	Joback Method
cpg	953.56	J/molxK	870.91	Joback Method
cpg	968.10	J/molxK	899.94	Joback Method
cpg	981.71	J/molxK	928.97	Joback Method
dvisc	0.0006347	Paxs	431.47	Joback Method

dvisc	0.0003136	Paxs	485.36	Joback Method
dvisc	0.0001784	Paxs	539.24	Joback Method
dvisc	0.0001124	Paxs	593.13	Joback Method
dvisc	0.0000765	Paxs	647.02	Joback Method
dvisc	0.0000553	Paxs	700.90	Joback Method
dvisc	0.0000418	Paxs	754.79	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=R184293&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184293&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>

## 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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