

# erythritol, acetylated

<b>Inchi:</b>	InChI=1S/C12H18O8/c1-7(13)17-5-11(19-9(3)15)12(20-10(4)16)6-18-8(2)14/h11-12H,5-6
<b>InchiKey:</b>	RSZROFFHBBZJAD-TXEJJXNPSA-N
<b>Formula:</b>	C12H18O8
<b>SMILES:</b>	CC(=O)OCC(OC(C)=O)C(COC(C)=O)OC(C)=O
<b>Mol. weight [g/mol]:</b>	290.27

## Physical Properties

Property code	Value	Unit	Source
gf	-890.40	kJ/mol	Joback Method
hf	-1280.77	kJ/mol	Joback Method
hfus	30.94	kJ/mol	Joback Method
hvap	78.15	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	-0.024		Crippen Method
mcvol	209.700	ml/mol	McGowan Method
pc	2123.64	kPa	Joback Method
rinpol	1565.80		NIST Webbook
rinpol	1565.80		NIST Webbook
tb	778.24	K	Joback Method
tc	974.96	K	Joback Method
tf	483.64	K	Joback Method
vc	0.791	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.12	J/molxK	778.24	Joback Method
cpg	657.35	J/molxK	942.17	Joback Method
cpg	649.02	J/molxK	909.39	Joback Method
cpg	639.70	J/molxK	876.60	Joback Method
cpg	629.43	J/molxK	843.81	Joback Method
cpg	618.23	J/molxK	811.03	Joback Method
cpg	664.67	J/molxK	974.96	Joback Method
dvisc	0.0000723	Paxs	778.24	Joback Method

dvisc	0.0000937	Paxs	729.14	Joback Method
dvisc	0.0001259	Paxs	680.04	Joback Method
dvisc	0.0001773	Paxs	630.94	Joback Method
dvisc	0.0002645	Paxs	581.84	Joback Method
dvisc	0.0004246	Paxs	532.74	Joback Method
dvisc	0.0007505	Paxs	483.64	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=R488901&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R488901&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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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