

# ribitol, acetylated

<b>Inchi:</b>	InChI=1S/C15H22O10/c1-8(16)21-6-13(23-10(3)18)15(25-12(5)20)14(24-11(4)19)7-22-9
<b>InchiKey:</b>	NVKPIAUSOPISJK-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O10
<b>SMILES:</b>	CC(=O)OCC(OC(C)=O)C(OC(C)=O)C(COC(C)=O)OC(C)=O
<b>Mol. weight [g/mol]:</b>	362.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1101.50	kJ/mol	Joback Method
hf	-1592.77	kJ/mol	Joback Method
hfus	37.97	kJ/mol	Joback Method
hvap	93.60	kJ/mol	Joback Method
log10ws	-0.75		Crippen Method
logp	-0.092		Crippen Method
mvol	259.410	ml/mol	McGowan Method
pc	1730.34	kPa	Joback Method
rinpol	1811.30		NIST Webbook
rinpol	1811.30		NIST Webbook
tb	922.73	K	Joback Method
tc	1133.29	K	Joback Method
tf	574.61	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	811.52	J/molxK	922.73	Joback Method
cpg	821.88	J/molxK	957.82	Joback Method
cpg	830.79	J/molxK	992.92	Joback Method
cpg	838.19	J/molxK	1028.01	Joback Method
cpg	844.04	J/molxK	1063.10	Joback Method
cpg	848.32	J/molxK	1098.20	Joback Method
cpg	850.97	J/molxK	1133.29	Joback Method
dvisc	0.0003285	Paxs	574.61	Joback Method

dvisc	0.0001826	Paxs	632.63	Joback Method
dvisc	0.0001121	Paxs	690.65	Joback Method
dvisc	0.0000742	Paxs	748.67	Joback Method
dvisc	0.0000521	Paxs	806.69	Joback Method
dvisc	0.0000384	Paxs	864.71	Joback Method
dvisc	0.0000294	Paxs	922.73	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=R489053&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R489053&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>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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