

# 2,3-di-O-acetyl-1,4-anhydro-4-O-methyl-D-fucitol

<b>Inchi:</b>	InChI=1S/C11H18O6/c1-6-10(14-4)11(17-8(3)13)9(5-15-6)16-7(2)12/h6,9-11H,5H2,1-4H
<b>InchiKey:</b>	BMQHDPUCUPLQPJZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H18O6
<b>SMILES:</b>	COC1C(C)OCC(OC(C)=O)C1OC(C)=O
<b>Mol. weight [g/mol]:</b>	246.26

## Physical Properties

Property code	Value	Unit	Source
gf	-615.90	kJ/mol	Joback Method
hf	-1030.89	kJ/mol	Joback Method
hfus	34.03	kJ/mol	Joback Method
hvap	64.81	kJ/mol	Joback Method
log10ws	-0.67		Crippen Method
logp	0.283		Crippen Method
mvol	181.610	ml/mol	McGowan Method
pc	2263.26	kPa	Joback Method
rinpol	1515.80		NIST Webbook
rinpol	1515.80		NIST Webbook
tb	658.57	K	Joback Method
tc	862.68	K	Joback Method
tf	401.51	K	Joback Method
vc	0.668	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.31	J/molxK	658.57	Joback Method
cpg	538.33	J/molxK	692.59	Joback Method
cpg	554.40	J/molxK	726.61	Joback Method
cpg	569.49	J/molxK	760.63	Joback Method
cpg	583.56	J/molxK	794.64	Joback Method
cpg	596.58	J/molxK	828.66	Joback Method
cpg	608.52	J/molxK	862.68	Joback Method
dvisc	0.0012794	Paxs	401.51	Joback Method

dvisc	0.0008278	Paxs	444.35	Joback Method
dvisc	0.0005783	Paxs	487.20	Joback Method
dvisc	0.0004281	Paxs	530.04	Joback Method
dvisc	0.0003314	Paxs	572.88	Joback Method
dvisc	0.0002659	Paxs	615.73	Joback Method
dvisc	0.0002196	Paxs	658.57	Joback Method

## Sources

<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=R221624&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R221624&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>
<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>

## 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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