

# 2-O-acetyl-1,5-Anhydro-3,4-di-O-methyl-L-rhamnitol

<b>Inchi:</b>	InChI=1S/C10H18O5/c1-6-9(12-3)10(13-4)8(5-14-6)15-7(2)11/h6,8-10H,5H2,1-4H3/t6-,8
<b>InchiKey:</b>	IOZKBHQZAGQIFL-LKEDHPFLSA-N
<b>Formula:</b>	C10H18O5
<b>SMILES:</b>	COC1C(C)OCC(OC(C)=O)C1OC
<b>Mol. weight [g/mol]:</b>	218.25

## Physical Properties

Property code	Value	Unit	Source
gf	-495.40	kJ/mol	Joback Method
hf	-897.67	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	55.84	kJ/mol	Joback Method
log10ws	-0.47		Crippen Method
logp	0.367		Crippen Method
mcvol	165.950	ml/mol	McGowan Method
pc	2336.03	kPa	Joback Method
rinpol	1316.02		NIST Webbook
rinpol	1316.02		NIST Webbook
tb	581.82	K	Joback Method
tc	781.60	K	Joback Method
tf	340.31	K	Joback Method
vc	0.607	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.71	J/molxK	581.82	Joback Method
cpg	526.35	J/molxK	748.31	Joback Method
cpg	511.88	J/molxK	715.01	Joback Method
cpg	496.55	J/molxK	681.71	Joback Method
cpg	480.39	J/molxK	648.41	Joback Method
cpg	463.43	J/molxK	615.12	Joback Method
cpg	539.92	J/molxK	781.60	Joback Method
dvisc	0.0002212	Paxs	581.82	Joback Method

dvisc	0.0002670	Paxs	541.57	Joback Method
dvisc	0.0003321	Paxs	501.32	Joback Method
dvisc	0.0004292	Paxs	461.06	Joback Method
dvisc	0.0005826	Paxs	420.81	Joback Method
dvisc	0.0008435	Paxs	380.56	Joback Method
dvisc	0.0013331	Paxs	340.31	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=R182940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R182940&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/44-012-9/2-O-acetyl-1-5-Anhydro-3-4-di-O-methyl-L-rhamnitol.pdf>

Generated by Cheméo on 2024-04-19 19:36:32.403769687 +0000 UTC m=+15844641.324347009.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.