

# 2,3,4,6-Tetramethyl-1-acetylglucoside (B)

<b>Inchi:</b>	InChI=1S/C12H22O7/c1-7(13)18-12-11(17-5)10(16-4)9(15-3)8(19-12)6-14-2/h8-12H,6H2
<b>InchiKey:</b>	XMEWOWGGNTUINQ-CTWIGJCISA-N
<b>Formula:</b>	C12H22O7
<b>SMILES:</b>	COCC1OC(OC(C)=O)C(OC)C(OC)C1OC
<b>Mol. weight [g/mol]:</b>	278.30

## Physical Properties

Property code	Value	Unit	Source
gf	-696.27	kJ/mol	Joback Method
hf	-1223.73	kJ/mol	Joback Method
hfus	38.47	kJ/mol	Joback Method
hvap	64.80	kJ/mol	Joback Method
log10ws	-0.09		Crippen Method
logp	-0.034		Crippen Method
mcvol	205.870	ml/mol	McGowan Method
pc	1845.16	kPa	Joback Method
rinpol	1437.00		NIST Webbook
rinpol	1450.00		NIST Webbook
rinpol	1454.00		NIST Webbook
tb	667.75	K	Joback Method
tc	859.74	K	Joback Method
tf	403.07	K	Joback Method
vc	0.753	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.02	J/molxK	667.75	Joback Method
cpg	693.88	J/molxK	827.74	Joback Method
cpg	679.38	J/molxK	795.74	Joback Method
cpg	663.78	J/molxK	763.75	Joback Method
cpg	647.16	J/molxK	731.75	Joback Method
cpg	629.55	J/molxK	699.75	Joback Method
cpg	707.26	J/molxK	859.74	Joback Method

dvisc	0.0001415	Paxs	667.75	Joback Method
dvisc	0.0001686	Paxs	623.64	Joback Method
dvisc	0.0002065	Paxs	579.52	Joback Method
dvisc	0.0002613	Paxs	535.41	Joback Method
dvisc	0.0003451	Paxs	491.30	Joback Method
dvisc	0.0004813	Paxs	447.18	Joback Method
dvisc	0.0007221	Paxs	403.07	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=R117456&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R117456&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</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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