

# Glucose, 2,3,6-triethyl, acetylated

<b>Inchi:</b>	InChI=1S/C16H28O8/c1-6-19-9-12-13(22-10(4)17)14(20-7-2)15(21-8-3)16(24-12)23-11(5
<b>InchiKey:</b>	RKQQDKAUQIJGQH-QMHWVQJVSA-N
<b>Formula:</b>	C16H28O8
<b>SMILES:</b>	CCOCC1OC(OC(C)=O)C(OCC)C(OCC)C1OC(C)=O
<b>Mol. weight [g/mol]:</b>	348.39

## Physical Properties

Property code	Value	Unit	Source
gf	-791.51	kJ/mol	Joback Method
hf	-1418.87	kJ/mol	Joback Method
hfus	50.43	kJ/mol	Joback Method
hvap	80.45	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.053		Crippen Method
mcvol	263.800	ml/mol	McGowan Method
pc	1425.07	kPa	Joback Method
rinpola	2064.00		NIST Webbook
rinpola	2064.00		NIST Webbook
tb	813.14	K	Joback Method
tc	1009.29	K	Joback Method
tf	498.08	K	Joback Method
vc	0.984	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	866.57	J/molxK	813.14	Joback Method
cpg	884.08	J/molxK	845.83	Joback Method
cpg	900.15	J/molxK	878.52	Joback Method
cpg	914.75	J/molxK	911.22	Joback Method
cpg	927.82	J/molxK	943.91	Joback Method
cpg	939.32	J/molxK	976.60	Joback Method
cpg	949.19	J/molxK	1009.29	Joback Method
dvisc	0.0005588	Paxs	498.08	Joback Method

dvisc	0.0003611	Paxs	550.59	Joback Method
dvisc	0.0002518	Paxs	603.10	Joback Method
dvisc	0.0001860	Paxs	655.61	Joback Method
dvisc	0.0001437	Paxs	708.12	Joback Method
dvisc	0.0001151	Paxs	760.63	Joback Method
dvisc	0.0000948	Paxs	813.14	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=R530062&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R530062&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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