

# «alpha»-D-Glucopyranoside, 1-butyl, permethylated

Inchi:	InChI=1S/C14H28O6/c1-6-7-8-19-14-13(18-5)12(17-4)11(16-3)10(20-14)9-15-2/h10-14H
InchiKey:	XXWYTNABLVGILP-PDWCTOEPSA-N
Formula:	C14H28O6
SMILES:	CCCCOC1OC(COC)C(OC)C(OC)C1OC
Mol. weight [g/mol]:	292.37

## Physical Properties

Property code	Value	Unit	Source
gf	-550.51	kJ/mol	Joback Method
hf	-1152.43	kJ/mol	Joback Method
hfus	42.05	kJ/mol	Joback Method
hvap	62.51	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.219		Crippen Method
mvol	232.480	ml/mol	McGowan Method
pc	1498.83	kPa	Joback Method
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
tb	659.64	K	Joback Method
tc	841.56	K	Joback Method
tf	375.68	K	Joback Method
vc	0.860	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	694.75	J/molxK	659.64	Joback Method
cpg	715.30	J/molxK	689.96	Joback Method
cpg	734.93	J/molxK	720.28	Joback Method
cpg	753.58	J/molxK	750.60	Joback Method
cpg	771.23	J/molxK	780.92	Joback Method
cpg	787.84	J/molxK	811.24	Joback Method
cpg	803.36	J/molxK	841.56	Joback Method
dvisc	0.0006855	Paxs	375.68	Joback Method

dvisc	0.0004257	Paxs	423.01	Joback Method
dvisc	0.0002910	Paxs	470.33	Joback Method
dvisc	0.0002132	Paxs	517.66	Joback Method
dvisc	0.0001646	Paxs	564.99	Joback Method
dvisc	0.0001323	Paxs	612.31	Joback Method
dvisc	0.0001097	Paxs	659.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R549576&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R549576&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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