

# «alpha»-D-Glycopyranoside, permethylated

<b>Inchi:</b>	InChI=1S/C11H22O6/c1-12-6-7-8(13-2)9(14-3)10(15-4)11(16-5)17-7/h7-11H,6H2,1-5H3
<b>InchiKey:</b>	ZYGZAHUNAGVTEC-QUARPLMYSA-N
<b>Formula:</b>	C11H22O6
<b>SMILES:</b>	COCC1OC(OC)C(OC)C(OC)C1OC
<b>Mol. weight [g/mol]:</b>	250.29

## Physical Properties

Property code	Value	Unit	Source
gf	-575.77	kJ/mol	Joback Method
hf	-1090.51	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	55.83	kJ/mol	Joback Method
log10ws	0.10		Crippen Method
logp	0.049		Crippen Method
mvol	190.210	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpol	1455.00		NIST Webbook
rinpol	1455.00		NIST Webbook
tb	591.00	K	Joback Method
tc	777.61	K	Joback Method
tf	341.87	K	Joback Method
vc	0.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.91	J/molxK	591.00	Joback Method
cpg	548.07	J/molxK	622.10	Joback Method
cpg	566.52	J/molxK	653.20	Joback Method
cpg	584.22	J/molxK	684.31	Joback Method
cpg	601.13	J/molxK	715.41	Joback Method
cpg	617.19	J/molxK	746.51	Joback Method
cpg	632.36	J/molxK	777.61	Joback Method
dvisc	0.0007109	Paxs	341.87	Joback Method

dvisc	0.0004684	Paxs	383.39	Joback Method
dvisc	0.0003348	Paxs	424.91	Joback Method
dvisc	0.0002541	Paxs	466.44	Joback Method
dvisc	0.0002017	Paxs	507.96	Joback Method
dvisc	0.0001658	Paxs	549.48	Joback Method
dvisc	0.0001401	Paxs	591.00	Joback Method

## Sources

<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=R549596&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R549596&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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