

# 1,4:3,6-Dianhydro-«alpha»-d-glucofpyranose

<b>Other names:</b>	1.4:3,6-Dianhydro-A-D-glucofpyranose
<b>Inchi:</b>	InChI=1S/C6H8O4/c7-3-5-4-2(1-8-5)9-6(3)10-4/h2-7H,1H2/t2-,3-,4-,5-,6+/m0/s1
<b>InchiKey:</b>	XOTJGHCMZOLIPX-GKFJPSNSA-N
<b>Formula:</b>	C6H8O4
<b>SMILES:</b>	OC1C2OC3COC1C3O2
<b>Mol. weight [g/mol]:</b>	144.13

## Physical Properties

Property code	Value	Unit	Source
gf	-228.71	kJ/mol	Joback Method
hf	-537.68	kJ/mol	Joback Method
hfus	35.87	kJ/mol	Joback Method
hvap	58.28	kJ/mol	Joback Method
log10ws	0.40		Crippen Method
logp	-1.130		Crippen Method
mvol	86.300	ml/mol	McGowan Method
pc	5065.79	kPa	Joback Method
ripol	2394.00		NIST Webbook
ripol	2394.00		NIST Webbook
tb	520.59	K	Joback Method
tc	721.10	K	Joback Method
tf	343.25	K	Joback Method
vc	0.323	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.97	J/mol×K	520.59	Joback Method
cpg	297.54	J/mol×K	687.68	Joback Method
cpg	289.01	J/mol×K	654.26	Joback Method
cpg	279.85	J/mol×K	620.84	Joback Method
cpg	270.00	J/mol×K	587.43	Joback Method
cpg	259.39	J/mol×K	554.01	Joback Method
cpg	305.51	J/mol×K	721.10	Joback Method

dvisc	0.0017956	Paxs	520.59	Joback Method
dvisc	0.0020707	Paxs	491.03	Joback Method
dvisc	0.0024318	Paxs	461.48	Joback Method
dvisc	0.0029196	Paxs	431.92	Joback Method
dvisc	0.0036006	Paxs	402.36	Joback Method
dvisc	0.0045905	Paxs	372.81	Joback Method
dvisc	0.0061025	Paxs	343.25	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U98148&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U98148&amp;Units=SI</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>ripol:</b>	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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