

# «alpha»-D-Galactopyranoside, 1-cyclohexyl, permethylated

<b>Inchi:</b>	InChI=1S/C16H30O6/c1-17-10-12-13(18-2)14(19-3)15(20-4)16(22-12)21-11-8-6-5-7-9-1
<b>InchiKey:</b>	KBMAHMXTIVYWOQ-CWVYHPPDSA-N
<b>Formula:</b>	C16H30O6
<b>SMILES:</b>	COCC1OC(OC2CCCCC2)C(OC)C(OC)C1OC
<b>Mol. weight [g/mol]:</b>	318.41

## Physical Properties

Property code	Value	Unit	Source
gf	-509.22	kJ/mol	Joback Method
hf	-1139.39	kJ/mol	Joback Method
hfus	39.07	kJ/mol	Joback Method
hvap	67.39	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.752		Crippen Method
mvol	249.800	ml/mol	McGowan Method
pc	1514.03	kPa	Joback Method
rinpol	1894.00		NIST Webbook
rinpol	1894.00		NIST Webbook
tb	724.95	K	Joback Method
tc	928.67	K	Joback Method
tf	405.60	K	Joback Method
vc	0.904	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	809.66	J/mol×K	724.95	Joback Method
cpg	833.22	J/mol×K	758.90	Joback Method
cpg	855.24	J/mol×K	792.86	Joback Method
cpg	875.68	J/mol×K	826.81	Joback Method
cpg	894.49	J/mol×K	860.77	Joback Method
cpg	911.62	J/mol×K	894.72	Joback Method
cpg	927.04	J/mol×K	928.67	Joback Method
dvisc	0.0007721	Paxs	405.60	Joback Method

dvisc	0.0004469	Paxs	458.83	Joback Method
dvisc	0.0002898	Paxs	512.05	Joback Method
dvisc	0.0002039	Paxs	565.28	Joback Method
dvisc	0.0001524	Paxs	618.50	Joback Method
dvisc	0.0001193	Paxs	671.73	Joback Method
dvisc	0.0000968	Paxs	724.95	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=R549536&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R549536&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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