

# GA8-2-O-«beta»-D-glucopyranoside, permethyl

Inchi:	InChI=1S/C32H48O12/c1-16-12-30-15-31(16,41-9)11-10-19(30)32-13-17(25(39-7)29(2,2
InchiKey:	WEKFXKXVNOXNFG-VBHSCQKMSA-N
Formula:	C32H48O12
SMILES:	C=C1CC23CC1(OC)CCC2C12CC(OC4OC(COC)C(OC)C(OC)C4OC)C(OC)C(C)(C(=O)O
Mol. weight [g/mol]:	624.72

## Physical Properties

Property code	Value	Unit	Source
gf	-771.75	kJ/mol	Joback Method
hf	-1887.37	kJ/mol	Joback Method
hfus	65.73	kJ/mol	Joback Method
hvap	119.54	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.059		Crippen Method
mcvol	454.120	ml/mol	McGowan Method
pc	813.53	kPa	Joback Method
rinpol	3650.00		NIST Webbook
rinpol	3650.00		NIST Webbook
rinpol	3655.00		NIST Webbook
tb	1311.06	K	Joback Method
tc	1619.09	K	Joback Method
tf	964.93	K	Joback Method
vc	1.696	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2194.28	J/molxK	1311.06	Joback Method
cpg	2282.46	J/molxK	1362.40	Joback Method
cpg	2378.98	J/molxK	1413.74	Joback Method
cpg	2484.79	J/molxK	1465.08	Joback Method
cpg	2600.84	J/molxK	1516.41	Joback Method
cpg	2728.10	J/molxK	1567.75	Joback Method
cpg	2867.50	J/molxK	1619.09	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=R178986&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R178986&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>h vap:</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>rinpolar:</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

Latest version available from:

<https://www.cheméo.com/cid/70-186-8/GA8-2-O-beta-D-glucoopyranoside-permethyl.pdf>

Generated by Cheméo on 2024-04-27 02:02:21.897907133 +0000 UTC m=+16472590.818484497.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.