

# GA20-13-O-glucoside, permethylated

**Inchi:** InChI=1S/C30H44O10/c1-16-13-28-15-29(16,39-25-22(36-6)21(35-5)20(34-4)17(38-25)1  
**InchiKey:** QEXOYMVZQLUEJN-IYHAUVRDSA-N  
**Formula:** C30H44O10  
**SMILES:** C=C1CC23CC1(OC1OC(COC)C(OC)C(OC)C1OC)CCC2C12CCCC(C)(C(=O)O1)C2C3O  
**Mol. weight [g/mol]:** 564.66

## Physical Properties

Property code	Value	Unit	Source
gf	-563.17	kJ/mol	Joback Method
hf	-1540.97	kJ/mol	Joback Method
hfus	56.04	kJ/mol	Joback Method
hvap	110.89	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	2.809		Crippen Method
mcvol	414.200	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	3398.00		NIST Webbook
rinpol	3398.00		NIST Webbook
tb	1229.80	K	Joback Method
tc	1506.20	K	Joback Method
tf	906.41	K	Joback Method
vc	1.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1920.97	J/mol×K	1229.80	Joback Method
cpg	1994.22	J/mol×K	1275.87	Joback Method
cpg	2074.24	J/mol×K	1321.93	Joback Method
cpg	2161.81	J/mol×K	1368.00	Joback Method
cpg	2257.70	J/mol×K	1414.07	Joback Method
cpg	2362.69	J/mol×K	1460.14	Joback Method
cpg	2477.54	J/mol×K	1506.20	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=R297488&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R297488&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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