

# Alpha,alpha'-diacetyl-3,3',4,4',5,5',-hexamethoxy-g

<b>Inchi:</b>	InChI=1S/C27H34N2O10/c1-14(30)18(26(32)28-16-9-20(34-3)24(38-7)21(10-16)35-4)13
<b>InchiKey:</b>	HSSQSPPVRLGGLX-UHFFFAOYSA-N
<b>Formula:</b>	C27H34N2O10
<b>SMILES:</b>	COc1cc(NC(=O)C(CC(C(C)=O)C(=O)Nc2cc(OC)c(OC)c(OC)c2)C(C)=O)cc(OC)c1OC
<b>Mol. weight [g/mol]:</b>	546.57
<b>CAS:</b>	107541-85-5

## Physical Properties

Property code	Value	Unit	Source
gf	-628.28	kJ/mol	Joback Method
hf	-1343.63	kJ/mol	Joback Method
hfus	68.11	kJ/mol	Joback Method
hvap	137.76	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	3.116		Crippen Method
mcvol	405.230	ml/mol	McGowan Method
pc	1077.81	kPa	Joback Method
tb	1349.86	K	Joback Method
tc	1693.84	K	Joback Method
tf	930.43	K	Joback Method
vc	1.522	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1323.96	J/molxK	1349.86	Joback Method
cpg	1305.45	J/molxK	1407.19	Joback Method
cpg	1280.17	J/molxK	1464.52	Joback Method
cpg	1247.96	J/molxK	1521.85	Joback Method
cpg	1208.68	J/molxK	1579.18	Joback Method
cpg	1162.17	J/molxK	1636.51	Joback Method
cpg	1108.28	J/molxK	1693.84	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=C107541855&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C107541855&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>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>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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