

# fucitol, acetylated

**Inchi:** InChI=1S/C16H24O10/c1-8(23-10(3)18)15(25-12(5)20)16(26-13(6)21)14(24-11(4)19)7-2  
**InchiKey:** CZLGYDMUTMQWDY-PAQICSSTSA-N  
**Formula:** C16H24O10  
**SMILES:** CC(=O)OCC(OC(C)=O)C(OC(C)=O)C(OC(C)=O)C(C)OC(C)=O  
**Mol. weight [g/mol]:** 376.36

## Physical Properties

Property code	Value	Unit	Source
gf	-1095.52	kJ/mol	Joback Method
hf	-1618.69	kJ/mol	Joback Method
hfus	37.04	kJ/mol	Joback Method
hvap	95.44	kJ/mol	Joback Method
log10ws	-1.28		Crippen Method
logp	0.296		Crippen Method
mcvol	273.500	ml/mol	McGowan Method
pc	1610.29	kPa	Joback Method
rinsol	1822.80		NIST Webbook
tb	945.17	K	Joback Method
tc	1159.36	K	Joback Method
tf	570.88	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	869.28	J/molxK	945.17	Joback Method
cpg	879.64	J/molxK	980.87	Joback Method
cpg	888.39	J/molxK	1016.57	Joback Method
cpg	895.51	J/molxK	1052.26	Joback Method
cpg	900.94	J/molxK	1087.96	Joback Method
cpg	904.66	J/molxK	1123.66	Joback Method
cpg	906.62	J/molxK	1159.36	Joback Method
dvisc	0.0003213	Paxs	570.88	Joback Method
dvisc	0.0001665	Paxs	633.26	Joback Method

dvisc	0.0000971	Paxs	695.64	Joback Method
dvisc	0.0000619	Paxs	758.03	Joback Method
dvisc	0.0000422	Paxs	820.41	Joback Method
dvisc	0.0000304	Paxs	882.79	Joback Method
dvisc	0.0000229	Paxs	945.17	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=R488916&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R488916&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>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>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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