

# myo-Inositol 3,4,5,6-tetraacetate, bis(trifluoroacetate) (isomer 1)

<b>Inchi:</b>	InChI=1S/C18H18F6O12/c1-5(25)31-9-10(32-6(2)26)12(34-8(4)28)14(36-16(30)18(22,23
<b>InchiKey:</b>	UZOWQPZKDVUDFC-UHFFFAOYSA-N
<b>Formula:</b>	C18H18F6O12
<b>SMILES:</b>	CC(=O)OC1C(OC(C)=O)C(OC(C)=O)C(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C1OC(C)=O
<b>Mol. weight [g/mol]:</b>	540.32

## Physical Properties

Property code	Value	Unit	Source
gf	-2480.12	kJ/mol	Joback Method
hf	-3125.19	kJ/mol	Joback Method
hfus	59.94	kJ/mol	Joback Method
hvap	101.99	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	0.675		Crippen Method
mcvol	308.880	ml/mol	McGowan Method
pc	1220.85	kPa	Joback Method
rinsol	1627.60		NIST Webbook
tb	1054.34	K	Joback Method
tc	1295.77	K	Joback Method
tf	720.14	K	Joback Method
vc	1.202	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1066.86	J/molxK	1054.34	Joback Method
cpg	1071.08	J/molxK	1094.58	Joback Method
cpg	1072.51	J/molxK	1134.82	Joback Method
cpg	1071.09	J/molxK	1175.05	Joback Method
cpg	1066.77	J/molxK	1215.29	Joback Method
cpg	1059.50	J/molxK	1255.53	Joback Method
cpg	1049.22	J/molxK	1295.77	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380221&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380221&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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