

# L-Sorbopyranose, pentakis(trifluoroacetate) (isomer 1)

<b>Inchi:</b>	InChI=1S/C16H7F15O11/c17-12(18,19)6(32)37-2-11(42-10(36)16(29,30)31)5(41-9(35)1
<b>InchiKey:</b>	TVXVQZUZYLRUBY-UHFFFAOYSA-N
<b>Formula:</b>	C16H7F15O11
<b>SMILES:</b>	O=C(OCC1(OC(=O)C(F)(F)F)OCC(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C1OC(=O)C(F)
<b>Mol. weight [g/mol]:</b>	660.20

## Physical Properties

Property code	Value	Unit	Source
gf	-4084.00	kJ/mol	Joback Method
hf	-4706.43	kJ/mol	Joback Method
hfus	56.99	kJ/mol	Joback Method
hvap	81.12	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	2.346		Crippen Method
mcvol	295.060	ml/mol	McGowan Method
pc	1139.80	kPa	Joback Method
rinpol	1132.50		NIST Webbook
rinpol	1132.50		NIST Webbook
tb	952.56	K	Joback Method
tc	1173.44	K	Joback Method
tf	696.96	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1013.67	J/molxK	952.56	Joback Method
cpg	1024.63	J/molxK	989.37	Joback Method
cpg	1035.04	J/molxK	1026.19	Joback Method
cpg	1045.07	J/molxK	1063.00	Joback Method
cpg	1054.87	J/molxK	1099.82	Joback Method
cpg	1064.59	J/molxK	1136.63	Joback Method
cpg	1074.39	J/molxK	1173.44	Joback Method

# Sources

<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.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>
<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=U380292&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380292&amp;Units=SI</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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