

# D-(+)-Talofuranose, pentakis(trifluoroacetate) (isomer 1)

Inchi:	InChI=1S/C16H7F15O11/c17-12(18,19)7(32)37-1-2(38-8(33)13(20,21)22)3-4(40-9(34)14)
InchiKey:	NPUHIXXXZHPNAB-UHFFFAOYSA-N
Formula:	C16H7F15O11
SMILES:	O=C(OCC(OC(=O)C(F)(F)F)C1OC(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C1OC(=O)C(F)(F)F)
Mol. weight [g/mol]:	660.20

## Physical Properties

Property code	Value	Unit	Source
gf	-4068.85	kJ/mol	Joback Method
hf	-4720.79	kJ/mol	Joback Method
hfus	61.86	kJ/mol	Joback Method
hvap	81.71	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	2.345		Crippen Method
mcvol	295.060	ml/mol	McGowan Method
pc	1093.54	kPa	Joback Method
rropol	1188.10		NIST Webbook
tb	947.61	K	Joback Method
tc	1170.59	K	Joback Method
tf	661.58	K	Joback Method
vc	1.220	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1008.82	J/molxK	947.61	Joback Method
cpg	1016.42	J/molxK	984.77	Joback Method
cpg	1022.58	J/molxK	1021.94	Joback Method
cpg	1027.40	J/molxK	1059.10	Joback Method
cpg	1030.94	J/molxK	1096.27	Joback Method
cpg	1033.28	J/molxK	1133.43	Joback Method
cpg	1034.50	J/molxK	1170.59	Joback Method

# Sources

<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=U380270&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380270&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>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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