

# Hexanol «beta»-D-glucopyranoside, TFA

<b>Other names:</b>	Hexanol, Gly, TFA
<b>Inchi:</b>	InChI=1S/C20H20F12O10/c1-2-3-4-5-6-37-12-11(42-16(36)20(30,31)32)10(41-15(35)19
<b>InchiKey:</b>	WIBWLTPEJESIJNR-RMPHYRLSA-N
<b>Formula:</b>	C20H20F12O10
<b>SMILES:</b>	CCCCCOC1OC(COC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C1OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	648.35

## Physical Properties

Property code	Value	Unit	Source
gf	-3342.03	kJ/mol	Joback Method
hf	-4114.91	kJ/mol	Joback Method
hfus	71.29	kJ/mol	Joback Method
hvap	87.86	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	3.836		Crippen Method
mcvol	344.540	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	1632.00		NIST Webbook
rinpol	1632.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1632.00		NIST Webbook
rinpol	1640.00		NIST Webbook
tb	990.72	K	Joback Method
tc	1231.77	K	Joback Method
tf	659.78	K	Joback Method
vc	1.391	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1218.98	J/molxK	990.72	Joback Method
cpg	1229.82	J/molxK	1030.89	Joback Method
cpg	1238.49	J/molxK	1071.07	Joback Method
cpg	1245.07	J/molxK	1111.24	Joback Method

cpg	1249.60	J/mol×K	1151.42	Joback Method
cpg	1252.16	J/mol×K	1191.59	Joback Method
cpg	1252.80	J/mol×K	1231.77	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.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=R190699&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R190699&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>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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