

# L(-)-Fucose, tetramethyl ether

<b>Other names:</b>	Methyl 6-deoxy-2,3,4-tri-O-methylhexopyranoside
<b>Inchi:</b>	InChI=1S/C10H20O5/c1-6-7(11-2)8(12-3)9(13-4)10(14-5)15-6/h6-10H,1-5H3
<b>InchiKey:</b>	FHJGOJSYFDDBAA-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O5
<b>SMILES:</b>	<chem>COC1OC(C)C(OC)C(OC)C1OC</chem>
<b>Mol. weight [g/mol]:</b>	220.26

## Physical Properties

Property code	Value	Unit	Source
gf	-479.19	kJ/mol	Joback Method
hf	-937.65	kJ/mol	Joback Method
hfus	30.51	kJ/mol	Joback Method
hvap	51.20	kJ/mol	Joback Method
log10ws	-0.39		Crippen Method
logp	0.423		Crippen Method
mcvol	170.250	ml/mol	McGowan Method
pc	2100.34	kPa	Joback Method
rinpol	1313.70		NIST Webbook
tb	545.70	K	Joback Method
tc	735.71	K	Joback Method
tf	308.37	K	Joback Method
vc	0.618	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.04	J/molxK	545.70	Joback Method
cpg	466.75	J/molxK	577.37	Joback Method
cpg	484.84	J/molxK	609.04	Joback Method
cpg	502.27	J/molxK	640.71	Joback Method
cpg	519.00	J/molxK	672.37	Joback Method
cpg	534.98	J/molxK	704.04	Joback Method
cpg	550.17	J/molxK	735.71	Joback Method
dvisc	0.0008464	Paxs	308.37	Joback Method

dvisc	0.0005641	Paxs	347.93	Joback Method
dvisc	0.0004084	Paxs	387.48	Joback Method
dvisc	0.0003139	Paxs	427.04	Joback Method
dvisc	0.0002523	Paxs	466.59	Joback Method
dvisc	0.0002098	Paxs	506.15	Joback Method
dvisc	0.0001792	Paxs	545.70	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U332750&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U332750&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>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>mccvol:</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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