

1,4-Anhydro-2,3,5-tri-O-methyl-L-fucitol

Inchi:	InChI=1S/C9H18O4/c1-6(10-2)8-9(12-4)7(11-3)5-13-8/h6-9H,5H2,1-4H3
InchiKey:	VYYXUPGWUOGQQX-UHFFFAOYSA-N
Formula:	C9H18O4
SMILES:	COC(C)C1OCC(OC)C1OC
Mol. weight [g/mol]:	190.24

Physical Properties

Property code	Value	Unit	Source
gf	-357.53	kJ/mol	Joback Method
hf	-743.23	kJ/mol	Joback Method
hfus	23.16	kJ/mol	Joback Method
hvap	46.62	kJ/mol	Joback Method
log10ws	-0.28		Crippen Method
logp	0.450		Crippen Method
mvol	150.290	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
rinpol	1229.98		NIST Webbook
rinpol	1229.98		NIST Webbook
tb	505.03	K	Joback Method
tc	696.54	K	Joback Method
tf	271.87	K	Joback Method
vc	0.547	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.90	J/molxK	505.03	Joback Method
cpg	448.25	J/molxK	664.62	Joback Method
cpg	433.84	J/molxK	632.70	Joback Method
cpg	418.78	J/molxK	600.78	Joback Method
cpg	403.09	J/molxK	568.87	Joback Method
cpg	386.79	J/molxK	536.95	Joback Method
cpg	462.00	J/molxK	696.54	Joback Method
dvisc	0.0002217	Paxs	505.03	Joback Method

dvisc	0.0002705	Paxs	466.17	Joback Method
dvisc	0.0003422	Paxs	427.31	Joback Method
dvisc	0.0004536	Paxs	388.45	Joback Method
dvisc	0.0006402	Paxs	349.59	Joback Method
dvisc	0.0009851	Paxs	310.73	Joback Method
dvisc	0.0017142	Paxs	271.87	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U412116&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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