1,4-ANHYDRO-L-THREITOL

Other names:	1,4-Anhydro-l-threitol
	Tetrahydro-3,4-furandiol, trans
	trans-tetrahydrofuran-3,4-diol
Inchi:	InChI=1S/C4H8O3/c5-3-1-7-2-4(3)6/h3-6H,1-2H2
InchiKey:	SSYDTHANSGMJTP-UHFFFAOYSA-N
Formula:	C4H8O3
SMILES:	OC1COCC1O
Mol. weight [g/mol]:	104.10

Physical Properties

Property code	Value	Unit	Source
hfus	17.28	kJ/mol	Joback Method
logp	-1.262		Crippen Method
mcvol	73.970	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.39	J/mol×K	512.84	Joback Method
cpg	190.65	J/mol×K	543.13	Joback Method
cpg	198.51	J/mol×K	573.42	Joback Method
cpg	205.99	J/mol×K	603.71	Joback Method
cpg	213.09	J/mol×K	634.00	Joback Method
cpg	219.82	J/mol×K	664.29	Joback Method
cpg	226.18	J/mol×K	694.58	Joback Method
dvisc	0.0575968	Pa×s	289.71	Joback Method
dvisc	0.0118979	Pa×s	326.90	Joback Method
dvisc	0.0033920	Pa×s	364.09	Joback Method
dvisc	0.0012203	Pa×s	401.27	Joback Method
dvisc	0.0005221	Pa×s	438.46	Joback Method
dvisc	0.0002551	Pa×s	475.65	Joback Method
dvisc	0.0001383	Pa×s	512.84	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	393.20	K	2.10	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22554741&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure