

Propane, 1-methyl-1,1'-oxybis

Inchi:	InChI=1S/C8H18O/c1-5-7(3)9-8(4)6-2/h7-8H,5-6H2,1-4H3
InchiKey:	HHBZZTKMMLDNDN-UHFFFAOYSA-N
Formula:	C8H18O
SMILES:	CCC(C)OC(C)CC
Mol. weight [g/mol]:	130.23
CAS:	17226-28-7

Physical Properties

Property code	Value	Unit	Source
gf	-93.40	kJ/mol	Joback Method
hf	-351.23	kJ/mol	Joback Method
hfus	10.62	kJ/mol	Joback Method
hvap	35.04	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.600		Crippen Method
mcvol	129.450	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinpol	786.00		NIST Webbook
rinpol	786.00		NIST Webbook
tb	403.98	K	Joback Method
tc	575.40	K	Joback Method
tf	172.15	K	Joback Method
vc	0.489	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.37	J/mol×K	403.98	Joback Method
cpg	270.82	J/mol×K	432.55	Joback Method
cpg	283.82	J/mol×K	461.12	Joback Method
cpg	296.39	J/mol×K	489.69	Joback Method
cpg	308.52	J/mol×K	518.26	Joback Method
cpg	320.23	J/mol×K	546.83	Joback Method
cpg	331.51	J/mol×K	575.40	Joback Method

dvisc	0.0136903	Paxs	172.15	Joback Method
dvisc	0.0035734	Paxs	210.79	Joback Method
dvisc	0.0014141	Paxs	249.43	Joback Method
dvisc	0.0007176	Paxs	288.06	Joback Method
dvisc	0.0004275	Paxs	326.70	Joback Method
dvisc	0.0002842	Paxs	365.34	Joback Method
dvisc	0.0002043	Paxs	403.98	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C17226287&Units=SI

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	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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