

Triethylene glycol, methyl-octyl ether

Inchi:	InChI=1S/C15H32O4/c1-3-4-5-6-7-8-9-17-12-13-19-15-14-18-11-10-16-2/h3-15H2,1-2H3
InchiKey:	MQXJDGPAODOSSZ-UHFFFAOYSA-N
Formula:	C15H32O4
SMILES:	CCCCCCCCOCCOCCOCCOC
Mol. weight [g/mol]:	276.41

Physical Properties

Property code	Value	Unit	Source
gf	-344.58	kJ/mol	Joback Method
hf	-881.81	kJ/mol	Joback Method
hfus	39.36	kJ/mol	Joback Method
hvap	58.62	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	3.043		Crippen Method
mcvol	245.690	ml/mol	McGowan Method
pc	1345.70	kPa	Joback Method
rinpol	1880.00		NIST Webbook
tb	632.28	K	Joback Method
tc	793.51	K	Joback Method
tf	347.73	K	Joback Method
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.52	J/molxK	632.28	Joback Method
cpg	700.29	J/molxK	659.15	Joback Method
cpg	717.42	J/molxK	686.02	Joback Method
cpg	733.88	J/molxK	712.90	Joback Method
cpg	749.68	J/molxK	739.77	Joback Method
cpg	764.82	J/molxK	766.64	Joback Method
cpg	779.28	J/molxK	793.51	Joback Method
dvisc	0.0011248	Paxs	347.73	Joback Method
dvisc	0.0005244	Paxs	395.16	Joback Method

dvisc	0.0002879	Paxs	442.58	Joback Method
dvisc	0.0001775	Paxs	490.00	Joback Method
dvisc	0.0001192	Paxs	537.43	Joback Method
dvisc	0.0000854	Paxs	584.86	Joback Method
dvisc	0.0000643	Paxs	632.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R120051&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
mcvol:	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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