

Polyglycol p-750 (dow)

Inchi:	InChI=1S/C3H8O2/c1-3(5)2-4/h3-5H,2H2,1H3
InchiKey:	DNIAPMSPPWPWGF-UHFFFAOYSA-N
Formula:	C3H8O2
SMILES:	CC(O)CO
Mol. weight [g/mol]:	76.09

Physical Properties

Property code	Value	Unit	Source
gf	-301.70	kJ/mol	Joback Method
hf	-414.99	kJ/mol	Joback Method
hfus	8.18	kJ/mol	Joback Method
hvap	55.24	kJ/mol	Joback Method
log10ws	0.28		Crippen Method
logp	-0.640		Crippen Method
mcvol	64.870	ml/mol	McGowan Method
pc	5791.74	kPa	Joback Method
tb	451.96	K	Joback Method
tc	614.38	K	Joback Method
tf	230.21	K	Joback Method
vc	0.235	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	135.47	J/mol×K	451.96	Joback Method
cpg	160.76	J/mol×K	587.31	Joback Method
cpg	156.10	J/mol×K	560.24	Joback Method
cpg	151.24	J/mol×K	533.17	Joback Method
cpg	146.19	J/mol×K	506.10	Joback Method
cpg	140.93	J/mol×K	479.03	Joback Method
cpg	165.24	J/mol×K	614.38	Joback Method
dvisc	0.0001649	Pa×s	451.96	Joback Method
dvisc	0.0003678	Pa×s	415.00	Joback Method
dvisc	0.0009593	Pa×s	378.04	Joback Method

dvisc	0.0030803	Pa×s	341.08	Joback Method
dvisc	0.0131321	Pa×s	304.13	Joback Method
dvisc	0.0836198	Pa×s	267.17	Joback Method
dvisc	0.9647802	Pa×s	230.21	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=B6009518&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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