

Triethylene glycol diformate

Inchi:	InChI=1S/C8H14O6/c9-7-13-5-3-11-1-2-12-4-6-14-8-10/h7-8H,1-6H2
InchiKey:	LPESYAYNMKQFKW-UHFFFAOYSA-N
Formula:	C8H14O6
SMILES:	O=COCCOCCOCCOC=O
Mol. weight [g/mol]:	206.19
CAS:	5451-65-0

Physical Properties

Property code	Value	Unit	Source
gf	-602.56	kJ/mol	Joback Method
hf	-908.49	kJ/mol	Joback Method
hfus	25.81	kJ/mol	Joback Method
hvap	56.48	kJ/mol	Joback Method
log10ws	0.93		Crippen Method
logp	-0.634		Crippen Method
mcvol	150.200	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	569.44	K	Joback Method
tc	743.70	K	Joback Method
tf	352.84	K	Joback Method
vc	0.590	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.73	J/mol×K	569.44	Joback Method
cpg	382.53	J/mol×K	598.48	Joback Method
cpg	392.98	J/mol×K	627.53	Joback Method
cpg	403.07	J/mol×K	656.57	Joback Method
cpg	412.78	J/mol×K	685.61	Joback Method
cpg	422.08	J/mol×K	714.66	Joback Method
cpg	430.95	J/mol×K	743.70	Joback Method
dvisc	0.0014352	Pa×s	352.84	Joback Method
dvisc	0.0008621	Pa×s	388.94	Joback Method

dvisc	0.0005647	Pa×s	425.04	Joback Method
dvisc	0.0003953	Pa×s	461.14	Joback Method
dvisc	0.0002913	Pa×s	497.24	Joback Method
dvisc	0.0002238	Pa×s	533.34	Joback Method
dvisc	0.0001778	Pa×s	569.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5451650&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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