Diethyl propane-1,3-diyl dicarbonate

Inchi: InChI=1S/C9H16O6/c1-3-12-8(10)14-6-5-7-15-9(11)13-4-2/h3-7H2,1-2H3
InchiKey: OFOLPWWHUDBNSD-UHFFFAOYSA-N
Formula: C9H16O6
SMILES: CCOC(=O)OCCCOC(=O)OCC
Mol. weight [g/mol]: 220.22

Physical Properties

Property code	Value	Unit	Source
gf	-652.94	kJ/mol	Joback Method
hf	-983.13	kJ/mol	Joback Method
hfus	27.02	kJ/mol	Joback Method
hvap	58.76	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	1.723		Crippen Method
mcvol	164.290	ml/mol	McGowan Method
pc	2441.06	kPa	Joback Method
rinpol	1432.00		NIST Webbook
tb	602.74	K	Joback Method
tc	782.89	K	Joback Method
tf	379.97	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.67	J/mol×K	602.74	Joback Method
cpg	429.90	J/mol×K	632.77	Joback Method
cpg	441.68	J/mol×K	662.79	Joback Method
cpg	452.97	J/mol×K	692.82	Joback Method
cpg	463.77	J/mol×K	722.84	Joback Method
cpg	474.04	J/mol×K	752.87	Joback Method
cpg	483.77	J/mol×K	782.89	Joback Method
dvisc	0.0010531	Pa×s	379.97	Joback Method
dvisc	0.0006381	Pa×s	417.10	Joback Method

dvisc	0.0004196	Pa×s	454.23	Joback Method
dvisc	0.0002940	Pa×s	491.36	Joback Method
dvisc	0.0002166	Pa×s	528.48	Joback Method
dvisc	0.0001660	Pa×s	565.61	Joback Method
dvisc	0.0001315	Pa×s	602.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373779&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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