Diethyl propane-1,2-diyl dicarbonate

Inchi: InChI=1S/C9H16O6/c1-4-12-8(10)14-6-7(3)15-9(11)13-5-2/h7H,4-6H2,1-3H3
InchiKey: NSLXRDJMYHNCHG-UHFFFAOYSA-N
Formula: C9H16O6
SMILES: CCOC(=O)OCC(C)OC(=O)OCC
Mol. weight [g/mol]: 220.22

Physical Properties

Property code	Value	Unit	Source
gf	-655.38	kJ/mol	Joback Method
hf	-988.41	kJ/mol	Joback Method
hfus	23.49	kJ/mol	Joback Method
hvap	58.37	kJ/mol	Joback Method
log10ws	-1.56		Crippen Method
logp	1.721		Crippen Method
mcvol	164.290	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
rinpol	1348.00		NIST Webbook
rinpol	1348.00		NIST Webbook
tb	602.30	K	Joback Method
tc	785.60	K	Joback Method
tf	364.97	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.10	J/mol×K	602.30	Joback Method
cpg	430.59	J/mol×K	632.85	Joback Method
cpg	442.60	J/mol×K	663.40	Joback Method
cpg	454.11	J/mol×K	693.95	Joback Method
cpg	465.09	J/mol×K	724.50	Joback Method
cpg	475.52	J/mol×K	755.05	Joback Method
cpg	485.37	J/mol×K	785.60	Joback Method
dvisc	0.0012875	Pa×s	364.97	Joback Method

dvisc	0.0007187	Pa×s	404.53	Joback Method
dvisc	0.0004450	Pa×s	444.08	Joback Method
dvisc	0.0002981	Pa×s	483.63	Joback Method
dvisc	0.0002121	Pa×s	523.19	Joback Method
dvisc	0.0001583	Pa×s	562.74	Joback Method
dvisc	0.0001228	Pa×s	602.30	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=U373776&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume