Diethyl 3-methylcyclopropane-1,2-dicarboxylate

Inchi: InChI=1S/C10H16O4/c1-4-13-9(11)7-6(3)8(7)10(12)14-5-2/h6-8H,4-5H2,1-3H3
InchiKey: IRISXSVBOADFLC-UHFFFAOYSA-N
Formula: C10H16O4
SMILES: CCOC(=O)C1C(C)C1C(=O)OCC
Mol. weight [g/mol]: 200.23
CAS: 4104-67-0

Physical Properties

Property code	Value	Unit	Source
gf	-389.19	kJ/mol	Joback Method
hf	-707.21	kJ/mol	Joback Method
hfus	27.51	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	0.995		Crippen Method
mcvol	155.780	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
tb	578.18	K	Joback Method
tc	769.71	K	Joback Method
tf	356.24	K	Joback Method
vc	0.599	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.49	J/mol×K	578.18	Joback Method
cpg	418.98	J/mol×K	610.10	Joback Method
cpg	432.80	J/mol×K	642.02	Joback Method
cpg	445.95	J/mol×K	673.94	Joback Method
cpg	458.45	J/mol×K	705.87	Joback Method
cpg	470.29	J/mol×K	737.79	Joback Method
cpg	481.48	J/mol×K	769.71	Joback Method
dvisc	0.0016078	Pa×s	356.24	Joback Method
dvisc	0.0012420	Pa×s	393.23	Joback Method

dvisc	0.0010031	Pa×s	430.22	Joback Method
dvisc	0.0008379	Pa×s	467.21	Joback Method
dvisc	0.0007187	Pa×s	504.20	Joback Method
dvisc	0.0006295	Pa×s	541.19	Joback Method
dvisc	0.0005608	Pa×s	578.18	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=C4104670&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