Cyclopropanecarboxylic acid, 2-methylpentyl ester

Inchi: InChI=1S/C10H18O2/c1-3-4-8(2)7-12-10(11)9-5-6-9/h8-9H,3-7H2,1-2H3
InchiKey: YQWUBVGTPXCEQE-UHFFFAOYSA-N
Formula: C10H18O2
SMILES: CCCC(C)COC(=O)C1CC1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-142.29	kJ/mol	Joback Method
hf	-427.01	kJ/mol	Joback Method
hfus	19.05	kJ/mol	Joback Method
hvap	46.53	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.376		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
rinpol	1219.00		NIST Webbook
tb	510.79	K	Joback Method
tc	699.47	K	Joback Method
tf	277.56	K	Joback Method
vc	0.571	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.31	J/mol×K	510.79	Joback Method
cpg	369.77	J/mol×K	542.24	Joback Method
cpg	384.48	J/mol×K	573.68	Joback Method
cpg	398.46	J/mol×K	605.13	Joback Method
cpg	411.74	J/mol×K	636.58	Joback Method
cpg	424.34	J/mol×K	668.02	Joback Method
cpg	436.30	J/mol×K	699.47	Joback Method
dvisc	0.0027998	Pa×s	277.56	Joback Method
dvisc	0.0016887	Pa×s	316.43	Joback Method

dvisc	0.0011377	Pa×s	355.30	Joback Method
dvisc	0.0008286	Pa×s	394.17	Joback Method
dvisc	0.0006388	Pa×s	433.05	Joback Method
dvisc	0.0005141	Pa×s	471.92	Joback Method
dvisc	0.0004276	Pa×s	510.79	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354658&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

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