Cyclopropanecarboxylic acid, 4-methoxy-2-methylbutyl ester

Inchi: InChI=1S/C10H18O3/c1-8(5-6-12-2)7-13-10(11)9-3-4-9/h8-9H,3-7H2,1-2H3

InchiKey: ZDAXWKATNIUDLK-UHFFFAOYSA-N

Formula: C10H18O3

SMILES: COCCC(C)COC(=O)C1CC1

Mol. weight [g/mol]: 186.25

Physical Properties

Property code	Value	Unit	Source
gf	-247.29	kJ/mol	Joback Method
hf	-559.23	kJ/mol	Joback Method
hfus	20.24	kJ/mol	Joback Method
hvap	48.95	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	1.612		Crippen Method
mcvol	154.210	ml/mol	McGowan Method
pc	2472.73	kPa	Joback Method
rinpol	1317.00		NIST Webbook
rinpol	1317.00		NIST Webbook
tb	533.21	K	Joback Method
tc	720.69	K	Joback Method
tf	299.79	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.46	J/mol×K	533.21	Joback Method
cpg	449.29	J/mol×K	689.45	Joback Method
cpg	436.84	J/mol×K	658.20	Joback Method
cpg	423.75	J/mol×K	626.95	Joback Method
cpg	410.00	J/mol×K	595.70	Joback Method
cpg	395.58	J/mol×K	564.46	Joback Method
cpg	461.11	J/mol×K	720.69	Joback Method
dvisc	0.0003639	Pa×s	533.21	Joback Method

dvisc	0.0004386	Pa×s	494.31	Joback Method
dvisc	0.0005457	Pa×s	455.40	Joback Method
dvisc	0.0007072	Pa×s	416.50	Joback Method
dvisc	0.0009669	Pa×s	377.60	Joback Method
dvisc	0.0014205	Pa×s	338.69	Joback Method
dvisc	0.0023058	Pa×s	299.79	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354660&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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