Cyclopropanecarboxylic acid, 2-methylene-, methyl ester

Other names: 2-Methoxycarbonylmethylenecyclopropane
Methyl 2-methylene cyclopropanecarboxylate
Inchi: InChI=1S/C6H8O2/c1-4-3-5(4)6(7)8-2/h5H,1,3H2,2H3
InchiKey: OGTSTHJQGWYGIO-UHFFFAOYSA-N
Formula: C6H8O2
SMILES: C=C1CC1C(=O)OC
Mol. weight [g/mol]: 112.13
CAS: 88787-23-9

Physical Properties

Property code	Value	Unit	Source
gf	-120.45	kJ/mol	Joback Method
hf	-254.93	kJ/mol	Joback Method
hfus	11.06	kJ/mol	Joback Method
hvap	38.18	kJ/mol	Joback Method
log10ws	-0.70		Crippen Method
logp	0.735		Crippen Method
mcvol	87.680	ml/mol	McGowan Method
pc	3911.14	kPa	Joback Method
rinpol	138.50		NIST Webbook
tb	418.87	K	Joback Method
tc	613.28	K	Joback Method
tf	261.16	K	Joback Method
vc	0.337	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	170.62	J/mol×K	418.87	Joback Method
cpg	180.09	J/mol×K	451.27	Joback Method
cpg	189.11	J/mol×K	483.67	Joback Method
cpg	197.71	J/mol×K	516.08	Joback Method
cpg	205.89	J/mol×K	548.48	Joback Method
cpg	213.67	J/mol×K	580.88	Joback Method

cpg	221.06	J/mol×K	613.28	Joback Method
dvisc	0.0009997	Pa×s	261.16	Joback Method
dvisc	0.0008173	Pa×s	287.44	Joback Method
dvisc	0.0006911	Pa×s	313.73	Joback Method
dvisc	0.0005997	Pa×s	340.01	Joback Method
dvisc	0.0005312	Pa×s	366.30	Joback Method
dvisc	0.0004781	Pa×s	392.59	Joback Method
dvisc	0.0004361	Pa×s	418.87	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C88787239&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

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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