

1,2-Dimethyl-3-carbomethoxycyclopropene

Inchi:	InChI=1S/C7H10O2/c1-4-5(2)6(4)7(8)9-3/h6H,1-3H3
InchiKey:	IKBRSONWVHPZBT-UHFFFAOYSA-N
Formula:	C7H10O2
SMILES:	COC(=O)C1C(C)=C1C
Mol. weight [g/mol]:	126.15
CAS:	20939-00-8

Physical Properties

Property code	Value	Unit	Source
gf	-154.41	kJ/mol	Joback Method
hf	-324.97	kJ/mol	Joback Method
hfus	15.25	kJ/mol	Joback Method
hvap	41.86	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.126		Crippen Method
mcvol	101.770	ml/mol	McGowan Method
pc	3427.87	kPa	Joback Method
tb	451.71	K	Joback Method
tc	647.10	K	Joback Method
tf	284.55	K	Joback Method
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.92	J/molxK	451.71	Joback Method
cpg	256.52	J/molxK	614.53	Joback Method
cpg	248.04	J/molxK	581.97	Joback Method
cpg	239.16	J/molxK	549.40	Joback Method
cpg	229.85	J/molxK	516.84	Joback Method
cpg	220.11	J/molxK	484.27	Joback Method
cpg	264.60	J/molxK	647.10	Joback Method
dvisc	0.0004090	Paxs	451.71	Joback Method
dvisc	0.0004479	Paxs	423.85	Joback Method

dvisc	0.0004968	Paxs	395.99	Joback Method
dvisc	0.0005597	Paxs	368.13	Joback Method
dvisc	0.0006429	Paxs	340.27	Joback Method
dvisc	0.0007571	Paxs	312.41	Joback Method
dvisc	0.0009206	Paxs	284.55	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C20939008&Units=SI

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

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