

Cyclopropane, 1-methoxy-2,3-dimethyl-

Inchi:	InChI=1S/C6H12O/c1-4-5(2)6(4)7-3/h4-6H,1-3H3
InchiKey:	SRXMDYKINVQGHW-UHFFFAOYSA-N
Formula:	C6H12O
SMILES:	COC1C(C)C1C
Mol. weight [g/mol]:	100.16
CAS:	116405-11-9

Physical Properties

Property code	Value	Unit	Source
gf	-60.03	kJ/mol	Joback Method
hf	-267.27	kJ/mol	Joback Method
hfus	12.76	kJ/mol	Joback Method
hvap	30.66	kJ/mol	Joback Method
log10ws	-0.94		Crippen Method
logp	1.287		Crippen Method
mcvol	90.410	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
tb	356.50	K	Joback Method
tc	534.33	K	Joback Method
tf	189.07	K	Joback Method
vc	0.344	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.46	J/molxK	356.50	Joback Method
cpg	221.25	J/molxK	504.69	Joback Method
cpg	210.92	J/molxK	475.05	Joback Method
cpg	200.18	J/molxK	445.41	Joback Method
cpg	189.03	J/molxK	415.78	Joback Method
cpg	177.46	J/molxK	386.14	Joback Method
cpg	231.17	J/molxK	534.33	Joback Method
dvisc	0.0002196	Paxs	356.50	Joback Method
dvisc	0.0002189	Paxs	328.60	Joback Method

dvisc	0.0002180	Paxs	300.69	Joback Method
dvisc	0.0002170	Paxs	272.78	Joback Method
dvisc	0.0002158	Paxs	244.88	Joback Method
dvisc	0.0002142	Paxs	216.97	Joback Method
dvisc	0.0002122	Paxs	189.07	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C116405119&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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