

1-Methylcyclopropyl

Other names:	1-Buten-3-yl radical
Inchi:	InChI=1S/C4H7/c1-3-4-2/h3-4H,1H2,2H3
InchiKey:	CRPTXKKKIGGDBX-UHFFFAOYSA-N
Formula:	C4H7
SMILES:	C=C[CH]C
Mol. weight [g/mol]:	55.10
CAS:	65338-31-0

Physical Properties

Property code	Value	Unit	Source
gf	120.58	kJ/mol	Joback Method
hf	50.07	kJ/mol	Joback Method
hfus	3.00	kJ/mol	Joback Method
hvap	23.29	kJ/mol	Joback Method
ie	7.54	eV	NIST Webbook
ie	7.49 ± 0.02	eV	NIST Webbook
ie	7.67 ± 0.02	eV	NIST Webbook
log10ws	-0.96		Crippen Method
logp	1.397		Crippen Method
mcvol	60.770	ml/mol	McGowan Method
pc	4397.41	kPa	Joback Method
tb	286.46	K	Joback Method
tc	451.98	K	Joback Method
tf	134.45	K	Joback Method
vc	0.226	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	78.36	J/mol×K	286.46	Joback Method
cpg	110.25	J/mol×K	424.39	Joback Method
cpg	104.62	J/mol×K	396.80	Joback Method
cpg	98.64	J/mol×K	369.22	Joback Method
cpg	92.28	J/mol×K	341.63	Joback Method

cpg	85.53	J/mol×K	314.05	Joback Method
cpg	115.53	J/mol×K	451.98	Joback Method
dvisc	0.0001525	Pa×s	286.46	Joback Method
dvisc	0.0001635	Pa×s	261.12	Joback Method
dvisc	0.0001780	Pa×s	235.79	Joback Method
dvisc	0.0001977	Pa×s	210.46	Joback Method
dvisc	0.0002260	Pa×s	185.12	Joback Method
dvisc	0.0002695	Pa×s	159.78	Joback Method
dvisc	0.0003434	Pa×s	134.45	Joback Method

Sources

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=C65338310&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
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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