Cyclopropane, 1,2,3-trimethyl-

Other names: 1,2,3-trimethylcyclopropane
Inchi: InChI=1S/C6H12/c1-4-5(2)6(4)3/h4-6H,1-3H3
InchiKey: PSGQRAAEZLHVDT-UHFFFAOYSA-N
Formula: C6H12
SMILES: CC1C(C)C1C
Mol. weight [g/mol]: 84.16
CAS: 42984-19-0

Physical Properties

Property code	Value	Unit	Source
gf	44.97	kJ/mol	Joback Method
hf	-135.05	kJ/mol	Joback Method
hfus	11.57	kJ/mol	Joback Method
hvap	28.25	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.908		Crippen Method
mcvol	84.540	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
tb	334.08	K	Joback Method
tc	510.89	K	Joback Method
tf	166.84	K	Joback Method
vc	0.327	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	141.35	J/mol×K	334.08	Joback Method
cpg	198.49	J/mol×K	481.42	Joback Method
cpg	188.04	J/mol×K	451.96	Joback Method
cpg	177.11	J/mol×K	422.49	Joback Method
cpg	165.70	J/mol×K	393.02	Joback Method
cpg	153.79	J/mol×K	363.55	Joback Method
cpg	208.48	J/mol×K	510.89	Joback Method
dvisc	0.0001879	Pa×s	334.08	Joback Method

dvisc	0.0001810	Pa×s	306.21	Joback Method
dvisc	0.0001732	Pa×s	278.33	Joback Method
dvisc	0.0001640	Pa×s	250.46	Joback Method
dvisc	0.0001532	Pa×s	222.59	Joback Method
dvisc	0.0001404	Pa×s	194.71	Joback Method
dvisc	0.0001250	Pa×s	166.84	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C42984190&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