CYCLOPROPENE, 1,2-DIMETHYL-

Other names: Cyclopropene, 1,2-dimethyl-
Inchi: InChI=1S/C5H8/c1-4-3-5(4)2/h3H2,1-2H3
InchiKey: QWKHRBFLFYXNDY-UHFFFAOYSA-N
Formula: C5H8
SMILES: CC1=C(C)C1
Mol. weight [g/mol]: 68.12

Physical Properties

Property code	Value	Unit	Source
hf	168.09	kJ/mol	Cheméo Relay (1.0)
hfus	6.21	kJ/mol	Joback Method
logp	1.727		Crippen Method
mcvol	66.150	ml/mol	McGowan Method
rinpol	539.00		NIST Webbook
rinpol	539.00		NIST Webbook
tb	312.00 ± 1.00	K	NIST Webbook
tf	167.85	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	102.16	J/mol×K	334.33	Joback Method
cpg	110.33	J/mol×K	365.13	Joback Method
cpg	118.06	J/mol×K	395.94	Joback Method
cpg	125.37	J/mol×K	426.74	Joback Method
cpg	132.28	J/mol×K	457.54	Joback Method
cpg	138.81	J/mol×K	488.34	Joback Method
cpg	144.98	J/mol×K	519.15	Joback Method
dvisc	0.0004219	Pa×s	194.09	Joback Method
dvisc	0.0003544	Pa×s	217.46	Joback Method
dvisc	0.0003079	Pa×s	240.84	Joback Method
dvisc	0.0002743	Pa×s	264.21	Joback Method
dvisc	0.0002490	Pa×s	287.58	Joback Method
dvisc	0.0002293	Pa×s	310.96	Joback Method

dvisc	0.0002137	Pa×s	334.33	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14309321&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point