Cyclopropane, 1,1'-methylenebis-

Other names:	Methane, dicyclopropyl- Dicyclopropylmethane (Cyclopropylmethyl)cyclopropane (2,3-methylene)propyl-cyclopropane 1,1'-methylenebiscyclopropane
Inchi:	InChI=1S/C7H12/c1-2-6(1)5-7-3-4-7/h6-7H,1-5H2
InchiKey:	LLVRMRMMZQPDAK-UHFFFAOYSA-N
Formula:	C7H12
SMILES:	C1CC1CC1CC1
Mol. weight [g/mol]:	96.17
CAS:	5685-47-2

Physical Properties

Property code	Value	Unit	Source
gf	129.56	kJ/mol	Joback Method
hf	-42.21	kJ/mol	Joback Method
hfus	10.16	kJ/mol	Joback Method
hvap	31.00	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	2.196		Crippen Method
mcvol	87.770	ml/mol	McGowan Method
pc	3763.78	kPa	Joback Method
rinpol	731.00		NIST Webbook
rinpol	734.00		NIST Webbook
rinpol	736.00		NIST Webbook
rinpol	734.00		NIST Webbook
rinpol	732.00		NIST Webbook
rinpol	725.00		NIST Webbook
rinpol	729.00		NIST Webbook
rinpol	736.00		NIST Webbook
tb	376.01 ± 0.20	K	NIST Webbook
tb	375.00 ± 3.00	K	NIST Webbook
tc	567.41	K	Joback Method
tf	170.03 ± 0.25	K	NIST Webbook
vc	0.342	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	161.20	J/mol×K	373.04	Joback Method
cpg	176.52	J/mol×K	405.43	Joback Method
cpg	190.86	J/mol×K	437.83	Joback Method
cpg	204.27	J/mol×K	470.22	Joback Method
cpg	216.81	J/mol×K	502.62	Joback Method
cpg	228.53	J/mol×K	535.01	Joback Method
cpg	239.49	J/mol×K	567.41	Joback Method
dvisc	0.0003982	Pa×s	204.53	Joback Method
dvisc	0.0004131	Pa×s	232.61	Joback Method
dvisc	0.0004251	Pa×s	260.70	Joback Method
dvisc	0.0004351	Pa×s	288.78	Joback Method
dvisc	0.0004435	Pa×s	316.87	Joback Method
dvisc	0.0004506	Pa×s	344.95	Joback Method
dvisc	0.0004567	Pa×s	373.04	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5685472&Units=SI
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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