Propane, 2-cyclopropyl-

Other names:	2-CYCLOPROPYLPROPANE
	Cyclopropane, (1-methylethyl)-
	Cyclopropane, isopropyl-
	Isopropylcyclopropane
Inchi:	InChI=1S/C6H12/c1-5(2)6-3-4-6/h5-6H,3-4H2,1-2H3
InchiKey:	HPBROFGYTXOJIO-UHFFFAOYSA-N
Formula:	C6H12
SMILES:	CC(C)C1CC1
Mol. weight [g/mol]:	84.16
CAS:	3638-35-5

Physical Properties

Property code	Value	Unit	Source
gf	57.95	kJ/mol	Joback Method
hf	-99.65	kJ/mol	Joback Method
hfus	5.91	kJ/mol	Joback Method
hvap	28.48	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	2.052		Crippen Method
mcvol	84.540	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	570.00		NIST Webbook
rinpol	570.00		NIST Webbook
rinpol	572.00		NIST Webbook
rinpol	575.00		NIST Webbook
rinpol	577.00		NIST Webbook
rinpol	569.90		NIST Webbook
rinpol	570.00		NIST Webbook
rinpol	572.00		NIST Webbook
rinpol	575.00		NIST Webbook
rinpol	577.00		NIST Webbook
rinpol	570.00		NIST Webbook
tb	342.98	K	Joback Method
tc	525.87	K	Joback Method
tf	160.22 ± 0.06	K	NIST Webbook
tf	160.18 ± 0.20	K	NIST Webbook
tf	160.22 ± 0.10	K	NIST Webbook

tf	160.18 ± 0.10	K	NIST Webbook
tf	160.22 ± 0.07	K	NIST Webbook
tf	159.98 ± 0.10	K	NIST Webbook
tf	160.18 ± 0.10	K	NIST Webbook
tf	159.98 ± 0.08	K	NIST Webbook
tf	159.45 ± 0.20	K	NIST Webbook
tf	160.08 ± 0.10	K	NIST Webbook
tf	154.85 ± 0.40	K	NIST Webbook
tf	154.85 ± 3.00	K	NIST Webbook
tf	154.83 ± 3.00	K	NIST Webbook
tf	160.08 ± 0.06	K	NIST Webbook
vc	0.323	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	140.64	J/mol×K	342.98	Joback Method
cpg	153.29	J/mol×K	373.46	Joback Method
cpg	165.30	J/mol×K	403.94	Joback Method
cpg	176.68	J/mol×K	434.43	Joback Method
cpg	187.48	J/mol×K	464.91	Joback Method
cpg	197.71	J/mol×K	495.39	Joback Method
cpg	207.39	J/mol×K	525.87	Joback Method
dvisc	0.0010214	Pa×s	160.32	Joback Method
dvisc	0.0006877	Pa×s	190.76	Joback Method
dvisc	0.0005163	Pa×s	221.21	Joback Method
dvisc	0.0004154	Pa×s	251.65	Joback Method
dvisc	0.0003504	Pa×s	282.09	Joback Method
dvisc	0.0003054	Pa×s	312.54	Joback Method
dvisc	0.0002728	Pa×s	342.98	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.52356e+01
Coeff. B	-3.16714e+03

Coeff. C	-3.32990e+01
Temperature range (K), min.	245.18
Temperature range (K), max.	352.43

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3638355&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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
KDB:	https://www.cheric.org/files/research/kdb/mol/mol456.mol
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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