

trans-1-Ethyl-2-methylcyclopropane

Other names:	1-Methyl-trans-2-ethyl-cyclopropane cyclopropane, 1-ethyl-2-methyl-, trans-
Inchi:	InChI=1S/C6H12/c1-3-6-4-5(6)2/h5-6H,3-4H2,1-2H3
InchiKey:	SAHWBARCQUAFSM-UHFFFAOYSA-N
Formula:	C6H12
SMILES:	CCC1CC1C
Mol. weight [g/mol]:	84.16
CAS:	19781-69-2

Physical Properties

Property code	Value	Unit	Source
gf	52.68	kJ/mol	Joback Method
hf	-114.71	kJ/mol	Joback Method
hfus	10.50	kJ/mol	Joback Method
hvap	28.55	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	2.052		Crippen Method
mcvol	84.540	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
rinpol	568.00		NIST Webbook
rinpol	568.00		NIST Webbook
tb	332.10 ± 0.70	K	NIST Webbook
tb	331.81 ± 0.30	K	NIST Webbook
tc	516.38	K	Joback Method
tf	171.08	K	Joback Method
vc	0.328	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	141.13	J/mol×K	338.75	Joback Method
cpg	153.47	J/mol×K	368.36	Joback Method
cpg	165.26	J/mol×K	397.96	Joback Method
cpg	176.49	J/mol×K	427.57	Joback Method

cpg	187.20	J/molxK	457.17	Joback Method
cpg	197.41	J/molxK	486.78	Joback Method
cpg	207.14	J/molxK	516.38	Joback Method
dvisc	0.0003196	Paxs	171.08	Joback Method
dvisc	0.0002916	Paxs	199.02	Joback Method
dvisc	0.0002721	Paxs	226.97	Joback Method
dvisc	0.0002578	Paxs	254.91	Joback Method
dvisc	0.0002468	Paxs	282.86	Joback Method
dvisc	0.0002382	Paxs	310.81	Joback Method
dvisc	0.0002312	Paxs	338.75	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C19781692&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
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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