

cis-1-Butyl-2-methylcyclopropane

Other names:	1-Butyl-2-methylcyclopropane, (Z)-
Inchi:	InChI=1S/C8H16/c1-3-4-5-8-6-7(8)2/h7-8H,3-6H2,1-2H3
InchiKey:	IWTBNPKBPXCCIV-UHFFFAOYSA-N
Formula:	C8H16
SMILES:	CCCCC1CC1C
Mol. weight [g/mol]:	112.21
CAS:	38851-69-3

Physical Properties

Property code	Value	Unit	Source
gf	69.52	kJ/mol	Joback Method
hf	-155.99	kJ/mol	Joback Method
hfus	15.68	kJ/mol	Joback Method
hvap	33.01	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.833		Crippen Method
mcvol	112.720	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
tb	384.51	K	Joback Method
tc	561.42	K	Joback Method
tf	193.62	K	Joback Method
vc	0.440	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.48	J/mol×K	384.51	Joback Method
cpg	284.10	J/mol×K	531.93	Joback Method
cpg	271.82	J/mol×K	502.45	Joback Method
cpg	258.93	J/mol×K	472.96	Joback Method
cpg	245.43	J/mol×K	443.48	Joback Method
cpg	231.29	J/mol×K	413.99	Joback Method
cpg	295.82	J/mol×K	561.42	Joback Method
dvisc	0.0003249	Paxs	384.51	Joback Method

dvisc	0.0003486	Paxs	352.69	Joback Method
dvisc	0.0003793	Paxs	320.88	Joback Method
dvisc	0.0004205	Paxs	289.06	Joback Method
dvisc	0.0004781	Paxs	257.25	Joback Method
dvisc	0.0005637	Paxs	225.44	Joback Method
dvisc	0.0007016	Paxs	193.62	Joback Method

Sources

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=C38851693&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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