

Trans-1-butyl-2-methylcyclopropane

Other names:	1-Butyl-2-methylcyclopropane, (E)-
Inchi:	InChI=1S/C8H16/c1-3-4-5-8-6-7(8)2/h7-8H,3-6H2,1-2H3/t7-,8-/m1/s1
InchiKey:	IWTBNPKBPXCCIV-YUMQZZPRSA-N
Formula:	C8H16
SMILES:	CCCC[C@@H]1C[C@H]1C
Mol. weight [g/mol]:	112.22

Physical Properties

Property code	Value	Unit	Source
af	0.3089		Cheméo Relay (1.0)
gf	69.52	kJ/mol	Joback Method
hf	-77.38	kJ/mol	Cheméo Relay (1.0)
hfus	15.68	kJ/mol	Joback Method
hvap	37.98	kJ/mol	Cheméo Relay (1.0)
ie	9.34	eV	Cheméo Relay (1.0)
logp	2.833		Crippen Method
mcvol	112.720	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
rinpol	790.00		NIST Webbook
tb	386.92	K	Cheméo Relay (1.0)
tc	593.03	K	Cheméo Relay (1.0)
tf	142.82	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.48	J/mol×K	384.51	Joback Method
cpg	295.82	J/mol×K	561.42	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
dvisc	0.0004205	Pa×s	289.06	Joback Method

dvisc	0.0003249	Pa×s	384.51	Joback Method
dvisc	0.0003486	Pa×s	352.69	Joback Method
dvisc	0.0003793	Pa×s	320.88	Joback Method
dvisc	0.0007016	Pa×s	193.62	Joback Method
dvisc	0.0004781	Pa×s	257.25	Joback Method
dvisc	0.0005637	Pa×s	225.44	Joback Method

Sources

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=C38851706&Units=SI
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

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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

Latest version available from:

<https://www.chemeo.com/cid/61-375-8/Trans-1-butyl-2-methylcyclopropane.pdf>

Generated by Cheméo on 2026-07-21 14:50:41.620363191 +0000 UTC m=+156537.462248570.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.