

1-ethyl-1-butyl-cyclopropane

Inchi:	InChI=1S/C9H18/c1-3-5-6-9(4-2)7-8-9/h3-8H2,1-2H3
InchiKey:	SJGHIVDXCALHCH-UHFFFAOYSA-N
Formula:	C9H18
SMILES:	CCCCC1(CC)CC1
Mol. weight [g/mol]:	126.24

Physical Properties

Property code	Value	Unit	Source
gf	80.16	kJ/mol	Joback Method
hf	-141.05	kJ/mol	Joback Method
hfus	10.90	kJ/mol	Joback Method
hvap	34.39	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.367		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
rinpola	855.30		NIST Webbook
rinpola	855.30		NIST Webbook
tb	412.30	K	Joback Method
tc	596.55	K	Joback Method
tf	233.03	K	Joback Method
vc	0.494	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.56	J/mol×K	412.30	Joback Method
cpg	274.83	J/mol×K	443.01	Joback Method
cpg	290.05	J/mol×K	473.72	Joback Method
cpg	304.29	J/mol×K	504.43	Joback Method
cpg	317.64	J/mol×K	535.14	Joback Method
cpg	330.18	J/mol×K	565.85	Joback Method
cpg	342.01	J/mol×K	596.55	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=R137069&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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