1-Propanamine, 2-methyl, N-(1,1-dimethylethyl)

Inchi: InChI=1S/C8H19N/c1-7(2)6-9-8(3,4)5/h7,9H,6H2,1-5H3
InchiKey: KVYFSZGMVJSHDS-UHFFFAOYSA-N
Formula: C8H19N
SMILES: CC(C)CNC(C)(C)C
Mol. weight [g/mol]: 129.24

Physical Properties

Property code	Value	Unit	Source
gf	106.27	kJ/mol	Joback Method
hf	-169.01	kJ/mol	Joback Method
hfus	10.64	kJ/mol	Joback Method
hvap	38.15	kJ/mol	Joback Method
log10ws	-2.23		Crippen Method
logp	2.030		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinpol	787.00		NIST Webbook
tb	428.94	K	Joback Method
tc	612.01	K	Joback Method
tf	220.00	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.35	J/mol×K	428.94	Joback Method
cpg	296.79	J/mol×K	459.45	Joback Method
cpg	311.47	J/mol×K	489.96	Joback Method
cpg	325.42	J/mol×K	520.48	Joback Method
cpg	338.67	J/mol×K	550.99	Joback Method
cpg	351.25	J/mol×K	581.50	Joback Method
cpg	363.19	J/mol×K	612.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R19733&Units=SI
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

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