2,2,5-Trimethyl-pyrrolidine

Inchi: InChI=1S/C7H15N/c1-6-4-5-7(2,3)8-6/h6,8H,4-5H2,1-3H3
InchiKey: KYJPHSGZNHRHDB-UHFFFAOYSA-N
Formula: C7H15N
SMILES: CC1CCC(C)(C)N1
Mol. weight [g/mol]: 113.20
CAS: 6496-48-6

Physical Properties

Property code	Value	Unit	Source
gf	119.12	kJ/mol	Joback Method
hf	-94.62	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	36.73	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.537		Crippen Method
mcvol	108.610	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	776.00		NIST Webbook
tb	418.96	K	Joback Method
tc	630.89	K	Joback Method
tf	304.24	K	Joback Method
vc	0.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.37	J/mol×K	418.96	Joback Method
cpg	233.80	J/mol×K	454.28	Joback Method
cpg	249.17	J/mol×K	489.60	Joback Method
cpg	263.56	J/mol×K	524.92	Joback Method
cpg	277.08	J/mol×K	560.24	Joback Method
cpg	289.81	J/mol×K	595.57	Joback Method
cpg	301.85	J/mol×K	630.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6496486&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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