2,5-Dimethyl-piperidine

Inchi: InChI=1S/C7H15N/c1-6-3-4-7(2)8-5-6/h6-8H,3-5H2,1-2H3
InchiKey: ICBFNPPCXPMCBP-UHFFFAOYSA-N
Formula: C7H15N
SMILES: CC1CCC(C)NC1
Mol. weight [g/mol]: 113.20
CAS: 34893-50-0

Physical Properties

Property code	Value	Unit	Source
gf	112.51	kJ/mol	Joback Method
hf	-116.02	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	38.05	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.394		Crippen Method
mcvol	108.610	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
rinpol	869.00		NIST Webbook
rinpol	869.00		NIST Webbook
tb	422.99	K	Joback Method
tc	634.06	K	Joback Method
tf	276.82	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.41	J/mol×K	422.99	Joback Method
cpg	232.27	J/mol×K	458.17	Joback Method
cpg	248.40	J/mol×K	493.35	Joback Method
cpg	263.82	J/mol×K	528.52	Joback Method
cpg	278.51	J/mol×K	563.70	Joback Method
cpg	292.50	J/mol×K	598.88	Joback Method
cpg	305.78	J/mol×K	634.06	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C34893500&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