2,2,4,6-tetramethylpiperidine

Inchi: InChI=1S/C9H19N/c1-7-5-8(2)10-9(3,4)6-7/h7-8,10H,5-6H2,1-4H3
InchiKey: NGBCPOUXXDBLMT-UHFFFAOYSA-N
Formula: C9H19N
SMILES: CC1CC(C)NC(C)(C)C1
Mol. weight [g/mol]: 141.26
CAS: 6292-82-6

Physical Properties

Property code	Value	Unit	Source
hfus	16.34	kJ/mol	Joback Method
logp	2.173		Crippen Method
mcvol	136.790	ml/mol	McGowan Method
tb	423.23	K	Cheméo Relay (1.0)
tf	227.90	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.80	J/mol×K	464.32	Joback Method
cpg	323.47	J/mol×K	500.08	Joback Method
cpg	342.02	J/mol×K	535.84	Joback Method
cpg	359.55	J/mol×K	571.60	Joback Method
cpg	376.13	J/mol×K	607.36	Joback Method
cpg	391.85	J/mol×K	643.12	Joback Method
cpg	406.80	J/mol×K	678.88	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)

Coeff. A	1.27698e+01
Coeff. B	-3.18754e+03
Coeff. C	-6.04540e+01
Temperature range (K), min.	301.15
Temperature range (K), max.	487.83

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point