(-)-Menthylamine

Other names: L-Menthylamine
2-(isopropyl)-5-methylcyclohexylamine
Inchi: InChI=1S/C10H21N/c1-7(2)9-5-4-8(3)6-10(9)11/h7-10H,4-6,11H2,1-3H3
InchiKey: RBMUAGDCCJDQLE-UHFFFAOYSA-N
Formula: C10H21N
SMILES: CC1CCC(C(C)C)C(N)C1
Mol. weight [g/mol]: 155.28
CAS: 21411-81-4

Physical Properties

Property code	Value	Unit	Source
gf	106.36	kJ/mol	Joback Method
hf	-207.58	kJ/mol	Joback Method
hfus	17.31	kJ/mol	Joback Method
hvap	47.92	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.406		Crippen Method
mcvol	150.880	ml/mol	McGowan Method
pc	2566.29	kPa	Joback Method
tb	510.50	K	Joback Method
tc	723.10	K	Joback Method
tf	269.62	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.28	J/mol×K	510.50	Joback Method
cpg	391.95	J/mol×K	545.93	Joback Method
cpg	411.56	J/mol×K	581.37	Joback Method
cpg	430.14	J/mol×K	616.80	Joback Method
cpg	447.71	J/mol×K	652.24	Joback Method
cpg	464.27	J/mol×K	687.67	Joback Method
cpg	479.86	J/mol×K	723.10	Joback Method

Sources

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=C21411814&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume