1-Heptanamine, 1-methyl, N-ethyl

Inchi: InChI=1S/C10H23N/c1-4-6-7-8-9-10(3)11-5-2/h10-11H,4-9H2,1-3H3
InchiKey: WYBGTPJUVROXQB-UHFFFAOYSA-N
Formula: C10H23N
SMILES: CCCCCCC(C)NCC
Mol. weight [g/mol]: 157.30

Physical Properties

Property code	Value	Unit	Source
gf	120.27	kJ/mol	Joback Method
hf	-201.54	kJ/mol	Joback Method
hfus	23.23	kJ/mol	Joback Method
hvap	43.90	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	2.955		Crippen Method
mcvol	161.740	ml/mol	McGowan Method
pc	2149.31	kPa	Joback Method
rinpol	1085.00		NIST Webbook
tb	477.93	K	Joback Method
tc	647.69	K	Joback Method
tf	240.12	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.23	J/mol×K	477.93	Joback Method
cpg	384.03	J/mol×K	506.22	Joback Method
cpg	399.21	J/mol×K	534.52	Joback Method
cpg	413.77	J/mol×K	562.81	Joback Method
cpg	427.74	J/mol×K	591.10	Joback Method
cpg	441.12	J/mol×K	619.40	Joback Method
cpg	453.94	J/mol×K	647.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R149309&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