(+)-2-Aminoheptane

Inchi:	InChI=1S/C7H17N/c1-3-4-5-6-7(2)8/h7H,3-6,8H2,1-2H3/t7-/m0/s1
InchiKey:	VSRBKQFNFZQRBM-ZETCQYMHSA-N
Formula:	C7H17N
SMILES:	CCCCCC(C)N
Mol. weight [g/mol]:	115.22
CAS:	6240-90-0

Physical Properties

Property code	Value	Unit	Source
gf	72.07	kJ/mol	Joback Method
hf	-159.30	kJ/mol	Joback Method
hfus	15.56	kJ/mol	Joback Method
hvap	41.43	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.914		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	431.65	K	Joback Method
tc	614.39	K	Joback Method
tf	236.91	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.75	J/mol×K	431.65	Joback Method
cpg	263.71	J/mol×K	462.11	Joback Method
cpg	276.13	J/mol×K	492.56	Joback Method
cpg	288.03	J/mol×K	523.02	Joback Method
cpg	299.42	J/mol×K	553.48	Joback Method
cpg	310.31	J/mol×K	583.94	Joback Method
cpg	320.73	J/mol×K	614.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6240900&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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