1-Pentanamine, N-methyl-

Other names:	Pentylamine, N-methyl- Methylamylamine N-Amyl-N-methylamine N-Methylamylamine N-Methylpentanamine N-Methylpentylamine N-Methyl-N-amylamine Amylmethylamine N-Methyl-n-pentylamine
Inchi:	InChI=1S/C6H15N/c1-3-4-5-6-7-2/h7H,3-6H2,1-2H3
InchiKey:	UOIWOHLIGKIYFE-UHFFFAOYSA-N
Formula:	C6H15N
SMILES:	CCCCCNC
Mol. weight [g/mol]:	101.19
CAS:	25419-06-1

Physical Properties

Property code	Value	Unit	Source
gf	89.03	kJ/mol	Joback Method
hf	-113.70	kJ/mol	Joback Method
hfus	16.39	kJ/mol	Joback Method
hvap	35.39	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.396		Crippen Method
mcvol	105.380	ml/mol	McGowan Method
pc	3152.62	kPa	Joback Method
rinpol	706.00		NIST Webbook
rinpol	706.00		NIST Webbook
rinpol	706.00		NIST Webbook
tb	390.15 ± 3.00	K	NIST Webbook
tc	556.73	K	Joback Method
tf	210.04	K	Joback Method
vc	0.406	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.23	J/mol×K	386.85	Joback Method
cpg	210.62	J/mol×K	415.16	Joback Method
cpg	221.60	J/mol×K	443.48	Joback Method
cpg	232.16	J/mol×K	471.79	Joback Method
cpg	242.32	J/mol×K	500.10	Joback Method
cpg	252.08	J/mol×K	528.41	Joback Method
cpg	261.47	J/mol×K	556.73	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C25419061&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