

2-Pentaname, 4-methyl-

Other names:	1,3-Dimethyl-n-butylamine 1,3-Dimethylbutanamine 1,3-Dimethylbutylamine 2-Amino-4-methylpentane 4-Methyl-2-aminopentane Butylamine, 1,3-dimethyl- UN 2379
Inchi:	InChI=1S/C6H15N/c1-5(2)4-6(3)7/h5-6H,4,7H2,1-3H3
InchiKey:	UNBMPKNTYKDYCG-UHFFFAOYSA-N
Formula:	C6H15N
SMILES:	CC(C)CC(C)N
Mol. weight [g/mol]:	101.19
CAS:	108-09-8

Physical Properties

Property code	Value	Unit	Source
gf	61.21	kJ/mol	Joback Method
hf	-143.94	kJ/mol	Joback Method
hfus	9.45	kJ/mol	Joback Method
hvap	38.81	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.380		Crippen Method
mcvol	105.380	ml/mol	McGowan Method
pc	3376.28	kPa	Joback Method
tb	351.15 ± 2.00	K	NIST Webbook
tb	382.20	K	NIST Webbook
tc	596.83	K	Joback Method
tf	210.64	K	Joback Method
vc	0.389	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.00	J/mol×K	408.33	Joback Method

cpg	223.15	J/mol×K	439.75	Joback Method
cpg	234.78	J/mol×K	471.16	Joback Method
cpg	245.91	J/mol×K	502.58	Joback Method
cpg	256.56	J/mol×K	534.00	Joback Method
cpg	266.73	J/mol×K	565.41	Joback Method
cpg	276.44	J/mol×K	596.83	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39086e+01
Coeff. B	-2.73098e+03
Coeff. C	-8.82400e+01
Temperature range (K), min.	288.74
Temperature range (K), max.	405.90

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108098&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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

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