2-Butanamine, 3,3-dimethyl-

Other names:	Propylamine, 1,2,2-trimethyl-
	1,2,2-Trimethylpropanamine
	1,2,2-Trimethylpropylamine
	2-Amino-3,3-dimethylbutane
	3-Amino-2,2-dimethylbutane
	3,3-Dimethyl-2-aminobutane
	3,3-Dimethylbut-2-ylamine
	3,3-Dimethyl-2-butanamine
Inchi:	InChI=1S/C6H15N/c1-5(7)6(2,3)4/h5H,7H2,1-4H3
InchiKey:	DXSUORGKJZADET-UHFFFAOYSA-N
Formula:	C6H15N
SMILES:	CC(N)C(C)(C)C
Mol. weight [g/mol]:	101.19
CAS:	3850-30-4

Physical Properties

Property code	Value	Unit	Source
gf	66.49	kJ/mol	Joback Method
hf	-147.41	kJ/mol	Joback Method
hfus	5.56	kJ/mol	Joback Method
hvap	37.91	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.380		Crippen Method
mcvol	105.380	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
ripol	948.00		NIST Webbook
tb	375.00	K	NIST Webbook
tb	374.15 ± 3.00	K	NIST Webbook
tc	602.23	K	Joback Method
tf	228.06	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	212.84	J/mol×K	405.54	Joback Method
cpg	226.08	J/mol×K	438.32	Joback Method
cpg	238.61	J/mol×K	471.10	Joback Method
cpg	250.45	J/mol×K	503.89	Joback Method
cpg	261.64	J/mol×K	536.67	Joback Method
cpg	272.20	J/mol×K	569.45	Joback Method
cpg	282.16	J/mol×K	602.23	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=C3850304&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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