3-Amino-2,4-dimethylpentane

Other names: 3-Pentanamine, 2,4-dimethyl-
1-isopropyl-2-methylpropylamine
Inchi: InChI=1S/C7H17N/c1-5(2)7(8)6(3)4/h5-7H,8H2,1-4H3
InchiKey: FATQVQVMXNESGD-UHFFFAOYSA-N
Formula: C7H17N
SMILES: CC(C)C(N)C(C)C
Mol. weight [g/mol]: 115.22
CAS: 4083-57-2

Physical Properties

Property code	Value	Unit	Source
gf	67.19	kJ/mol	Joback Method
hf	-169.86	kJ/mol	Joback Method
hfus	8.51	kJ/mol	Joback Method
hvap	40.65	kJ/mol	Joback Method
log10ws	-1.82		Crippen Method
logp	1.626		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	3055.79	kPa	Joback Method
tb	430.77	K	Joback Method
tc	622.07	K	Joback Method
tf	206.91	K	Joback Method
vc	0.439	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.83	J/mol×K	430.77	Joback Method
cpg	264.58	J/mol×K	462.65	Joback Method
cpg	277.72	J/mol×K	494.54	Joback Method
cpg	290.27	J/mol×K	526.42	Joback Method
cpg	302.25	J/mol×K	558.30	Joback Method
cpg	313.68	J/mol×K	590.19	Joback Method
cpg	324.56	J/mol×K	622.07	Joback Method

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=C4083572&Units=SI

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