N-(4-(Dimethylamino)butyl)acetamide

Inchi: InChI=1S/C8H18N2O/c1-8(11)9-6-4-5-7-10(2)3/h4-7H2,1-3H3,(H,9,11)
InchiKey: RTVLZHHTDTXHFN-UHFFFAOYSA-N
Formula: C8H18N2O
SMILES: CC(=O)NCCCCN(C)C
Mol. weight [g/mol]: 158.24

Physical Properties

Property code	Value	Unit	Source
gf	87.73	kJ/mol	Joback Method
hf	-200.03	kJ/mol	Joback Method
hfus	26.20	kJ/mol	Joback Method
hvap	48.63	kJ/mol	Joback Method
log10ws	-0.71		Crippen Method
logp	0.464		Crippen Method
mcvol	145.110	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
rinpol	1389.00		NIST Webbook
tb	498.92	K	Joback Method
tc	675.77	K	Joback Method
tf	314.98	K	Joback Method
vc	0.542	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.42	J/mol×K	498.92	Joback Method
cpg	349.11	J/mol×K	528.40	Joback Method
cpg	362.17	J/mol×K	557.87	Joback Method
cpg	374.62	J/mol×K	587.35	Joback Method
cpg	386.49	J/mol×K	616.82	Joback Method
cpg	397.79	J/mol×K	646.30	Joback Method
cpg	408.54	J/mol×K	675.77	Joback Method

Sources

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=U378762&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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