

N,N'-Hexamethylenebisacetamide

Other names:	Acetamide, N,N'-hexamethylenebis- Acetamide, N,N'-1,6-hexanediylbis- Hexamethylene bisacetamide Hexamethylenediacetamide HMBA N,N'-Diacetylhexamethylenediamine NSC 95580 N-[6-(Acetylamino)hexyl]acetamide
Inchi:	InChI=1S/C10H20N2O2/c1-9(13)11-7-5-3-4-6-8-12-10(2)14/h3-8H2,1-2H3,(H,11,13)(H,14)
InchiKey:	BNQSTAOJRULKNX-UHFFFAOYSA-N
Formula:	C10H20N2O2
SMILES:	CC(=O)NCCCCCNC(C)=O
Mol. weight [g/mol]:	200.28
CAS:	3073-59-4

Physical Properties

Property code	Value	Unit	Source
gf	-45.74	kJ/mol	Joback Method
hf	-367.95	kJ/mol	Joback Method
hfus	35.05	kJ/mol	Joback Method
hvap	64.22	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	0.819		Crippen Method
mcvol	174.860	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
tb	636.28	K	Joback Method
tc	821.63	K	Joback Method
tf	407.64	K	Joback Method
vc	0.677	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.05	J/mol×K	636.28	Joback Method

cpg	481.50	J/mol×K	667.17	Joback Method
cpg	494.26	J/mol×K	698.06	Joback Method
cpg	506.36	J/mol×K	728.96	Joback Method
cpg	517.82	J/mol×K	759.85	Joback Method
cpg	528.65	J/mol×K	790.74	Joback Method
cpg	538.87	J/mol×K	821.63	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=C3073594&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

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