

Methamphetamine acetylated

Other names:	N-Acetylmethamphetamine N-Methyl-N-(1-methyl-2-phenylethyl)acetamide N-Acetyl-N-methylamphetamine Acetyl-N-methylamphetamine
Inchi:	InChI=1S/C12H17NO/c1-10(13(3)11(2)14)9-12-7-5-4-6-8-12/h4-8,10H,9H2,1-3H3
InchiKey:	XCLNTWGFQRQKLDU-UHFFFAOYSA-N
Formula:	C12H17NO
SMILES:	CC(=O)N(C)C(C)Cc1ccccc1
Mol. weight [g/mol]:	191.27
CAS:	27765-80-6

Physical Properties

Property code	Value	Unit	Source
gf	141.99	kJ/mol	Joback Method
hf	-104.81	kJ/mol	Joback Method
hfus	21.97	kJ/mol	Joback Method
hvap	52.98	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.096		Crippen Method
mcvol	167.730	ml/mol	McGowan Method
pc	2576.72	kPa	Joback Method
rinpol	1630.00		NIST Webbook
rinpol	1630.00		NIST Webbook
tb	566.51	K	Joback Method
tc	776.09	K	Joback Method
tf	318.82	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.63	J/mol×K	566.51	Joback Method
cpg	421.10	J/mol×K	601.44	Joback Method
cpg	436.54	J/mol×K	636.37	Joback Method

cpg	450.99	J/mol×K	671.30	Joback Method
cpg	464.50	J/mol×K	706.23	Joback Method
cpg	477.12	J/mol×K	741.16	Joback Method
cpg	488.90	J/mol×K	776.09	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=C27765806&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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