

# Methylenedioxyamphetamine, N-heptafluorobutyryl deriv.

Other names:

MDA, HFB

Butanamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-2,2,3,3,4,4,4-heptafluoro-

Inchi: InChI=1S/C14H12F7NO3/c1-7(4-8-2-3-9-10(5-8)25-6-24-9)22-11(23)12(15,16)13(17,18)

InchiKey: HIHQJXYXAUVMOH-UHFFFAOYSA-N

Formula: C14H12F7NO3

SMILES: CC(Cc1ccc2c(c1)OCO2)NC(=O)C(F)(F)C(F)(F)C(F)(F)F

Mol. weight [g/mol]: 375.24

CAS: 156572-19-9

## Physical Properties

Property code	Value	Unit	Source
gf	-1340.75	kJ/mol	Joback Method
hf	-1752.97	kJ/mol	Joback Method
hfus	40.79	kJ/mol	Joback Method
hvap	62.79	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	3.295		Crippen Method
mvol	209.180	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
tb	710.47	K	Joback Method
tc	901.99	K	Joback Method
tf	473.30	K	Joback Method
vc	0.840	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.94	J/molxK	710.47	Joback Method
cpg	640.51	J/molxK	742.39	Joback Method
cpg	651.18	J/molxK	774.31	Joback Method
cpg	661.05	J/molxK	806.23	Joback Method
cpg	670.22	J/molxK	838.15	Joback Method
cpg	678.79	J/molxK	870.07	Joback Method
cpg	686.85	J/molxK	901.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C156572199&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C156572199&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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