

# Butyramide, 2,2,3,3,4,4,4-heptafluoro-

<b>Inchi:</b>	InChI=1S/C4H2F7NO/c5-2(6,1(12)13)3(7,8)4(9,10)11/h(H2,12,13)
<b>InchiKey:</b>	FOBJABJCODOMEQ-UHFFFAOYSA-N
<b>Formula:</b>	C4H2F7NO
<b>SMILES:</b>	N=C(O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	213.05

## Physical Properties

Property code	Value	Unit	Source
gf	-1305.57	kJ/mol	Joback Method
hf	-1478.81	kJ/mol	Joback Method
hvap	43.65	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	2.355		Crippen Method
mvol	91.160	ml/mol	McGowan Method
tb	452.64	K	Joback Method
tf	275.83	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.62	J/molxK	452.64	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method
cpg	41.59	J/molxK	100.12	Joback Method

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=B6005860&Units=SI>

<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>hvap:</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>tb:</b>	Normal Boiling Point Temperature
<b>tf:</b>	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/80-727-6/Butyramide-2-2-3-3-4-4-4-heptafluoro.pdf>

Generated by Cheméo on 2024-04-30 05:42:41.92025907 +0000 UTC m=+16745010.840836383.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.