

# I-Methionine, n-heptafluorobutyryl-, decyl ester

Inchi:	InChI=1S/C19H30F7NO3S/c1-3-4-5-6-7-8-9-10-12-30-15(28)14(11-13-31-2)27-16(29)17
InchiKey:	HKVIGMQBIBQLFG-UHFFFAOYSA-N
Formula:	C19H30F7NO3S
SMILES:	CCCCCCCCCOC(=O)C(CCSC)NC(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	485.50

## Physical Properties

Property code	Value	Unit	Source
gf	-1488.82	kJ/mol	Joback Method
hf	-2101.83	kJ/mol	Joback Method
hfus	54.38	kJ/mol	Joback Method
hvap	77.05	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	5.741		Crippen Method
mvol	326.300	ml/mol	McGowan Method
pc	1005.89	kPa	Joback Method
rinpol	2181.00		NIST Webbook
rinpol	2181.00		NIST Webbook
tb	867.99	K	Joback Method
tc	1062.67	K	Joback Method
tf	509.43	K	Joback Method
vc	1.306	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1059.55	J/molxK	867.99	Joback Method
cpg	1074.40	J/molxK	900.44	Joback Method
cpg	1088.24	J/molxK	932.88	Joback Method
cpg	1101.15	J/molxK	965.33	Joback Method
cpg	1113.21	J/molxK	997.78	Joback Method
cpg	1124.50	J/molxK	1030.22	Joback Method
cpg	1135.09	J/molxK	1062.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U320857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320857&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>rinp:</b>	Non-polar retention indices
<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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