

# L-Methionine, n-pentafluoropropionyl-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C23H40F5NO3S/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-17-32-20(30)19(16-18-3
<b>InchiKey:</b>	XSCFPCVGVDCWRC-UHFFFAOYSA-N
<b>Formula:</b>	C23H40F5NO3S
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(CCSC)NC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	505.63

## Physical Properties

Property code	Value	Unit	Source
gf	-1068.36	kJ/mol	Joback Method
hf	-1783.42	kJ/mol	Joback Method
hfus	65.99	kJ/mol	Joback Method
hvap	88.88	kJ/mol	Joback Method
log10ws	-8.25		Crippen Method
logp	7.056		Crippen Method
mcvol	379.120	ml/mol	McGowan Method
pc	832.42	kPa	Joback Method
rinpol	2671.00		NIST Webbook
tb	964.20	K	Joback Method
tc	1187.09	K	Joback Method
tf	550.91	K	Joback Method
vc	1.504	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1287.81	J/molxK	964.20	Joback Method
cpg	1305.38	J/molxK	1001.35	Joback Method
cpg	1321.61	J/molxK	1038.50	Joback Method
cpg	1336.62	J/molxK	1075.65	Joback Method
cpg	1350.50	J/molxK	1112.80	Joback Method
cpg	1363.37	J/molxK	1149.94	Joback Method
cpg	1375.32	J/molxK	1187.09	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U320922&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320922&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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