

# Sarcosine, n-heptafluorobutyryl-, pentadecyl ester

Inchi:	InChI=1S/C22H36F7NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-33-18(31)17-30(2)19(3)
InchiKey:	DYGVBQDDL BWYDB-UHFFFAOYSA-N
Formula:	C22H36F7NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	495.51

## Physical Properties

Property code	Value	Unit	Source
gf	-1472.85	kJ/mol	Joback Method
hf	-2186.28	kJ/mol	Joback Method
hfus	59.46	kJ/mol	Joback Method
hvap	72.90	kJ/mol	Joback Method
log10ws	-7.53		Crippen Method
logp	6.912		Crippen Method
mcvol	352.220	ml/mol	McGowan Method
pc	825.26	kPa	Joback Method
rinsol	2346.00		NIST Webbook
tb	830.56	K	Joback Method
tc	1018.52	K	Joback Method
tf	503.65	K	Joback Method
vc	1.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1156.75	J/mol×K	830.56	Joback Method
cpg	1174.83	J/mol×K	861.89	Joback Method
cpg	1191.82	J/mol×K	893.21	Joback Method
cpg	1207.82	J/mol×K	924.54	Joback Method
cpg	1222.91	J/mol×K	955.87	Joback Method
cpg	1237.18	J/mol×K	987.19	Joback Method
cpg	1250.71	J/mol×K	1018.52	Joback Method

# Sources

<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>
<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=U321266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321266&amp;Units=SI</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>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>mccvol:</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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