

# Sarcosine, n-heptafluorobutyryl-, nonyl ester

<b>Inchi:</b>	InChI=1S/C16H24F7NO3/c1-3-4-5-6-7-8-9-10-27-12(25)11-24(2)13(26)14(17,18)15(19,2
<b>InchiKey:</b>	AFHWNYPLMYTVFM-UHFFFAOYSA-N
<b>Formula:</b>	C16H24F7NO3
<b>SMILES:</b>	CCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	411.36

## Physical Properties

Property code	Value	Unit	Source
gf	-1523.37	kJ/mol	Joback Method
hf	-2062.44	kJ/mol	Joback Method
hfus	43.92	kJ/mol	Joback Method
hvap	59.55	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.571		Crippen Method
mcvol	267.680	ml/mol	McGowan Method
pc	1184.97	kPa	Joback Method
rinpola	1766.00		NIST Webbook
rinpola	1766.00		NIST Webbook
tb	693.28	K	Joback Method
tc	854.93	K	Joback Method
tf	436.03	K	Joback Method
vc	1.073	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	805.93	J/molxK	693.28	Joback Method
cpg	820.73	J/molxK	720.22	Joback Method
cpg	834.68	J/molxK	747.16	Joback Method
cpg	847.83	J/molxK	774.10	Joback Method
cpg	860.24	J/molxK	801.04	Joback Method
cpg	871.95	J/molxK	827.99	Joback Method
cpg	883.00	J/molxK	854.93	Joback Method

# Sources

<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=U321261&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321261&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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