

# Sarcosine, n-pentafluorobenzoyl-, butyl ester

<b>Inchi:</b>	InChI=1S/C14H14F5NO3/c1-3-4-5-23-7(21)6-20(2)14(22)8-9(15)11(17)13(19)12(18)10(8)
<b>InchiKey:</b>	XAPWDOHNXMABAC-UHFFFAOYSA-N
<b>Formula:</b>	C14H14F5NO3
<b>SMILES:</b>	CCCCOC(=O)CN(C)C(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	339.26

## Physical Properties

Property code	Value	Unit	Source
gf	-1094.85	kJ/mol	Joback Method
hf	-1423.51	kJ/mol	Joback Method
hfus	46.92	kJ/mol	Joback Method
hvap	66.20	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	2.797		Crippen Method
mvol	212.200	ml/mol	McGowan Method
pc	1701.90	kPa	Joback Method
rinpol	1782.00		NIST Webbook
rinpol	1782.00		NIST Webbook
tb	710.25	K	Joback Method
tc	887.26	K	Joback Method
tf	494.07	K	Joback Method
vc	0.850	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	588.39	J/mol×K	710.25	Joback Method
cpg	600.26	J/mol×K	739.75	Joback Method
cpg	611.48	J/mol×K	769.25	Joback Method
cpg	622.06	J/mol×K	798.75	Joback Method
cpg	632.01	J/mol×K	828.26	Joback Method
cpg	641.34	J/mol×K	857.76	Joback Method
cpg	650.05	J/mol×K	887.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321544&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321544&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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