

# Sarcosine, n-pentafluorobenzoyl-, tetradecyl ester

Inchi:	InChI=1S/C24H34F5NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-33-17(31)16-30(2)24(32)1
InchiKey:	KQLCDKGIVFWUJI-UHFFFAOYSA-N
Formula:	C24H34F5NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	479.52

## Physical Properties

Property code	Value	Unit	Source
gf	-1010.65	kJ/mol	Joback Method
hf	-1629.91	kJ/mol	Joback Method
hfus	72.82	kJ/mol	Joback Method
hvap	88.46	kJ/mol	Joback Method
log10ws	-8.41		Crippen Method
logp	6.698		Crippen Method
mcvol	353.100	ml/mol	McGowan Method
pc	873.25	kPa	Joback Method
rinqol	2768.00		NIST Webbook
tb	939.05	K	Joback Method
tc	1154.97	K	Joback Method
tf	606.77	K	Joback Method
vc	1.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1165.71	J/molxK	939.05	Joback Method
cpg	1182.72	J/molxK	975.04	Joback Method
cpg	1198.35	J/molxK	1011.02	Joback Method
cpg	1212.64	J/molxK	1047.01	Joback Method
cpg	1225.65	J/molxK	1083.00	Joback Method
cpg	1237.42	J/molxK	1118.99	Joback Method
cpg	1247.99	J/molxK	1154.97	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321554&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321554&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>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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