

# Sarcosine, n-pentafluorobenzoyl-, hexadecyl ester

Inchi:	InChI=1S/C26H38F5NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-35-19(33)18-32(2)2
InchiKey:	IWJRXMYEYOMPBL-UHFFFAOYSA-N
Formula:	C26H38F5NO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	507.58

## Physical Properties

Property code	Value	Unit	Source
gf	-993.81	kJ/mol	Joback Method
hf	-1671.19	kJ/mol	Joback Method
hfus	78.00	kJ/mol	Joback Method
hvap	92.92	kJ/mol	Joback Method
log10ws	-9.25		Crippen Method
logp	7.479		Crippen Method
mcvol	381.280	ml/mol	McGowan Method
pc	782.00	kPa	Joback Method
rinsol	3046.00		NIST Webbook
tb	984.81	K	Joback Method
tc	1220.36	K	Joback Method
tf	629.31	K	Joback Method
vc	1.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1289.61	J/molxK	984.81	Joback Method
cpg	1307.89	J/molxK	1024.07	Joback Method
cpg	1324.51	J/molxK	1063.33	Joback Method
cpg	1339.51	J/molxK	1102.58	Joback Method
cpg	1352.98	J/molxK	1141.84	Joback Method
cpg	1364.98	J/molxK	1181.10	Joback Method
cpg	1375.58	J/molxK	1220.36	Joback Method

# Sources

<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.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=U321556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321556&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>rinpolar:</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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