

# Sarcosine, n-pentafluorobenzoyl-, ethyl ester

<b>Inchi:</b>	InChI=1S/C12H10F5NO3/c1-3-21-5(19)4-18(2)12(20)6-7(13)9(15)11(17)10(16)8(6)14/h3
<b>InchiKey:</b>	CIUFHJXMOVARRA-UHFFFAOYSA-N
<b>Formula:</b>	C12H10F5NO3
<b>SMILES:</b>	CCOC(=O)CN(C)C(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	311.20

## Physical Properties

Property code	Value	Unit	Source
gf	-1111.69	kJ/mol	Joback Method
hf	-1382.23	kJ/mol	Joback Method
hfus	41.74	kJ/mol	Joback Method
hvap	61.75	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.017		Crippen Method
mcvol	184.020	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	1594.00		NIST Webbook
rinpol	1594.00		NIST Webbook
tb	664.49	K	Joback Method
tc	841.75	K	Joback Method
tf	471.53	K	Joback Method
vc	0.738	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	485.30	J/molxK	664.49	Joback Method
cpg	495.99	J/molxK	694.03	Joback Method
cpg	506.12	J/molxK	723.58	Joback Method
cpg	515.69	J/molxK	753.12	Joback Method
cpg	524.71	J/molxK	782.66	Joback Method
cpg	533.20	J/molxK	812.21	Joback Method
cpg	541.13	J/molxK	841.75	Joback Method

# Sources

<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=U321542&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321542&amp;Units=SI</a>
<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>

# 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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