

# Sarcosine, n-pentafluoropropionyl-, tetradecyl ester

Inchi:	InChI=1S/C20H34F5NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-29-17(27)16-26(2)18(28)19
InchiKey:	BJTCANRDIUARQY-UHFFFAOYSA-N
Formula:	C20H34F5NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	431.48

## Physical Properties

Property code	Value	Unit	Source
gf	-1102.91	kJ/mol	Joback Method
hf	-1744.03	kJ/mol	Joback Method
hfus	55.53	kJ/mol	Joback Method
hvap	71.38	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	5.887		Crippen Method
mcvol	320.500	ml/mol	McGowan Method
pc	965.67	kPa	Joback Method
rinsol	2227.00		NIST Webbook
tb	789.49	K	Joback Method
tc	966.70	K	Joback Method
tf	477.51	K	Joback Method
vc	1.272	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1020.15	J/molxK	789.49	Joback Method
cpg	1037.43	J/molxK	819.03	Joback Method
cpg	1053.73	J/molxK	848.56	Joback Method
cpg	1069.11	J/molxK	878.10	Joback Method
cpg	1083.61	J/molxK	907.63	Joback Method
cpg	1097.31	J/molxK	937.17	Joback Method
cpg	1110.25	J/molxK	966.70	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=U320942&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320942&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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