

Sarcosine, N-pentafluoropropionyl-, heptadecyl ester

Inchi: InChI=1S/C23H40F5NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-32-20(30)19-29
InchiKey: PXDKOQBLZXPDSQ-UHFFFAOYSA-N
Formula: C23H40F5NO3
SMILES: CCCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 473.57

Physical Properties

Property code	Value	Unit	Source
hfus	63.30	kJ/mol	Joback Method
hvap	112.06	kJ/mol	Cheméo Relay (1.0)
log10ws	-7.21		Cheméo Relay (1.0)
logp	7.057		Crippen Method
mcvol	362.770	ml/mol	McGowan Method
rinpol	2524.00		NIST Webbook
rinpol	2524.00		NIST Webbook
tb	612.90	K	Cheméo Relay (1.0)
tf	298.90	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1203.03	J/mol×K	858.13	Joback Method
cpg	1222.25	J/mol×K	890.65	Joback Method
cpg	1240.30	J/mol×K	923.18	Joback Method
cpg	1257.26	J/mol×K	955.70	Joback Method
cpg	1273.23	J/mol×K	988.23	Joback Method
cpg	1288.27	J/mol×K	1020.75	Joback Method
cpg	1302.48	J/mol×K	1053.27	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U320945&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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