

Sarcosine, n-heptafluorobutyryl-, decyl ester

Inchi:

UYHZRSOKCZWCQL-UHFFFAOYSA-N

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Formula:

C17H26F7NO3

SMILES:

CCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)C(F)(F)F

Mol. weight [g/mol]:

425.38

Physical Properties

Property code	Value	Unit	Source
gf	-1514.95	kJ/mol	Joback Method
hf	-2083.08	kJ/mol	Joback Method
hfus	46.51	kJ/mol	Joback Method
hvap	61.77	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.962		Crippen Method
mcvol	281.770	ml/mol	McGowan Method
pc	1110.37	kPa	Joback Method
rinpol	1863.00		NIST Webbook
tb	716.16	K	Joback Method
tc	880.38	K	Joback Method
tf	447.30	K	Joback Method
vc	1.129	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	862.15	J/mol×K	716.16	Joback Method
cpg	877.39	J/mol×K	743.53	Joback Method
cpg	891.76	J/mol×K	770.90	Joback Method
cpg	905.31	J/mol×K	798.27	Joback Method
cpg	918.10	J/mol×K	825.64	Joback Method
cpg	930.17	J/mol×K	853.01	Joback Method
cpg	941.57	J/mol×K	880.38	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321262&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
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
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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