

Sarcosine, N-heptafluorobutyryl-, decyl ester

Inchi:	InChI=1S/C17H26F7NO3/c1-3-4-5-6-7-8-9-10-11-28-13(26)12-25(2)14(27)15(18,19)16(20,21)22
InchiKey:	UYHZRSOKCZWCQL-UHFFFAOYSA-N
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
hfus	46.51	kJ/mol	Joback Method
hvap	87.07	kJ/mol	Cheméo Relay (1.0)
log10ws	-5.82		Cheméo Relay (1.0)
logp	4.962		Crippen Method
mcvol	281.770	ml/mol	McGowan Method
rinpol	1863.00		NIST Webbook
tb	554.25	K	Cheméo Relay (1.0)
tf	262.71	K	Cheméo Relay (1.0)

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

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=U321262&Units=SI>

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):

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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