

Myristamide, N-undecyl-

Inchi:	InChI=1S/C25H51NO/c1-3-5-7-9-11-13-14-15-17-19-21-23-25(27)26-24-22-20-18-16-12
InchiKey:	CWCUDFAJLJKBPX-UHFFFAOYSA-N
Formula:	C25H51NO
SMILES:	CCCCCCCCCCCC(=O)NCCCCCCCCCCC
Mol. weight [g/mol]:	381.68

Physical Properties

Property code	Value	Unit	Source
gf	120.09	kJ/mol	Joback Method
hf	-618.44	kJ/mol	Joback Method
hfus	67.20	kJ/mol	Joback Method
hvap	84.43	kJ/mol	Joback Method
log10ws	-9.25		Crippen Method
logp	8.335		Crippen Method
mcvol	374.660	ml/mol	McGowan Method
pc	797.08	kPa	Joback Method
rinpol	2962.00		NIST Webbook
tb	875.44	K	Joback Method
tc	1072.89	K	Joback Method
tf	474.10	K	Joback Method
vc	1.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1257.14	J/molxK	875.44	Joback Method
cpg	1279.41	J/molxK	908.35	Joback Method
cpg	1300.43	J/molxK	941.26	Joback Method
cpg	1320.25	J/molxK	974.16	Joback Method
cpg	1338.93	J/molxK	1007.07	Joback Method
cpg	1356.54	J/molxK	1039.98	Joback Method
cpg	1373.13	J/molxK	1072.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U408029&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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