13-Docosenamide, (Z)-

Other names:	Erucylamide
	(Z)-13-Docosenamide
	13-Docosenamide, cis-
	Armid E
	cis-13-Docosenamide
	cis-13-Docosenoamide
	Crodamide E
	Erucamide
	Erucic acid amide
	Kemamide E
	Petrac eramide
	Polydis TR 131
	Unislip 1753
	Euracamide
	Crodamide ER
	(Z)-docos-13-enamide
Inchi:	InChI=1S/C22H43NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22(23)24
InchiKey:	UAUDZVJPLUQNMU-KTKRTIGZSA-N
Formula:	C22H43NO
SMILES:	CCCCCCCCC=CCCCCCCCCCCCC(N)=O
Mol. weight [g/mol]:	337.58
CAS:	112-84-5

Physical Properties

Property code	Value	Unit	Source
gf	152.11	kJ/mol	Joback Method
hf	-458.98	kJ/mol	Joback Method
hfus	59.73	kJ/mol	Joback Method
hvap	81.91	kJ/mol	Joback Method
log10ws	-8.09		Crippen Method
logp	7.070		Crippen Method
mcvol	328.090	ml/mol	McGowan Method
pc	1002.71	kPa	Joback Method
rinpol	2625.00		NIST Webbook
rinpol	2625.00		NIST Webbook
rinpol	2625.00		NIST Webbook
rinpol	2625.00		NIST Webbook

rinpol	2625.00		NIST Webbook
rinpol	2625.00		NIST Webbook
tb	833.32	K	Joback Method
tc	1022.23	K	Joback Method
tf	465.81	K	Joback Method
vc	1.282	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1055.97	J/mol×K	833.32	Joback Method
cpg	1075.51	J/mol×K	864.80	Joback Method
cpg	1094.04	J/mol×K	896.29	Joback Method
cpg	1111.63	J/mol×K	927.77	Joback Method
cpg	1128.34	J/mol×K	959.26	Joback Method
cpg	1144.22	J/mol×K	990.74	Joback Method
cpg	1159.33	J/mol×K	1022.23	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C112845&Units=SI

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