Propanamide, N,N-bis(2-ethylhexyl)-3-cyclopentyl-

Inchi: InChI=1S/C24H47NO/c1-5-9-13-21(7-3)19-25(20-22(8-4)14-10-6-2)24(26)18-17-23-15-1

InchiKey: ICOLSKRERSRGSK-UHFFFAOYSA-N

Formula: C24H47NO

SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)CCC1CCCC1

Mol. weight [g/mol]: 365.64

Physical Properties

Property code	Value	Unit	Source
gf	164.73	kJ/mol	Joback Method
hf	-533.82	kJ/mol	Joback Method
hfus	49.42	kJ/mol	Joback Method
hvap	77.29	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	7.218		Crippen Method
mcvol	349.710	ml/mol	McGowan Method
pc	938.07	kPa	Joback Method
rinpol	2436.00		NIST Webbook
rinpol	2436.00		NIST Webbook
tb	829.23	K	Joback Method
tc	1019.61	K	Joback Method
tf	423.54	K	Joback Method
vc	1.333	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1162.89	J/mol×K	829.23	Joback Method
cpg	1185.20	J/mol×K	860.96	Joback Method
cpg	1206.25	J/mol×K	892.69	Joback Method
cpg	1226.10	J/mol×K	924.42	Joback Method
cpg	1244.82	J/mol×K	956.15	Joback Method
cpg	1262.46	J/mol×K	987.88	Joback Method
cpg	1279.11	J/mol×K	1019.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308283&Units=SI
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

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