

Propanamide, N,N-dinonyl-3-cyclopentyl-

Inchi:	InChI=1S/C26H51NO/c1-3-5-7-9-11-13-17-23-27(24-18-14-12-10-8-6-4-2)26(28)22-21-2
InchiKey:	GZEXLFPNTJDPH-UHFFFAOYSA-N
Formula:	C26H51NO
SMILES:	CCCCCCCCCN(CCCCCCCC)C(=O)CCC1CCCC1
Mol. weight [g/mol]:	393.69

Physical Properties

Property code	Value	Unit	Source
gf	186.45	kJ/mol	Joback Method
hf	-564.54	kJ/mol	Joback Method
hfus	61.65	kJ/mol	Joback Method
hvap	82.52	kJ/mol	Joback Method
log10ws	-8.70		Crippen Method
logp	8.287		Crippen Method
mvol	377.890	ml/mol	McGowan Method
pc	829.07	kPa	Joback Method
rinpol	2876.00		NIST Webbook
rinpol	2876.00		NIST Webbook
tb	875.87	K	Joback Method
tc	1072.37	K	Joback Method
tf	476.08	K	Joback Method
vc	1.456	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1290.95	J/mol×K	875.87	Joback Method
cpg	1313.85	J/mol×K	908.62	Joback Method
cpg	1335.44	J/mol×K	941.37	Joback Method
cpg	1355.79	J/mol×K	974.12	Joback Method
cpg	1374.97	J/mol×K	1006.87	Joback Method
cpg	1393.07	J/mol×K	1039.62	Joback Method
cpg	1410.16	J/mol×K	1072.37	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308287&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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