Valeramide, n,n'-ethylene-bis(2,2,4-trimethyl-3-oxo)-

Inchi: InChI=1S/C18H32N2O4/c1-11(2)13(21)17(5,6)15(23)19-9-10-20-16(24)18(7,8)14(22)12(

InchiKey: OAFTUJVCHZBHJF-UHFFFAOYSA-N

Formula: C18H32N2O4

SMILES: CC(C)C(=O)C(C)(C)C(O)=NCCN=C(O)C(C)(C)C(=O)C(C)C

Mol. weight [g/mol]: 340.46

CAS: 73840-20-7

Physical Properties

Property code	Value	Unit	Source
hf	-827.67	kJ/mol	Joback Method
hvap	105.93	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	3.402		Crippen Method
mcvol	290.720	ml/mol	McGowan Method
pc	1292.07	kPa	Joback Method
tb	1049.12	K	Joback Method
tc	1284.68	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C73840207&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

hf: Enthalpy of formation 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature