(2E,4E)-N-Isobutyloctadeca-2,4-dienamide

Inchi: InChI=1S/C22H41NO/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22(24)23-20-21(2)
InchiKey: QQCGKIZHTJLRNN-NBRVCOCJSA-N
Formula: C22H41NO
SMILES: CCCCCCCCCCCCCC=CC=CC(O)=NCC(C)C
Mol. weight [g/mol]: 335.57
CAS: 54794-70-6

Physical Properties

Property code	Value	Unit	Source
hf	-348.05	kJ/mol	Joback Method
hvap	84.17	kJ/mol	Joback Method
log10ws	-7.48		Crippen Method
logp	7.412		Crippen Method
mcvol	323.790	ml/mol	McGowan Method
pc	960.88	kPa	Joback Method
rinpol	2744.00		NIST Webbook
rinpol	2778.20		NIST Webbook
rinpol	2744.00		NIST Webbook
rinpol	2778.20		NIST Webbook
tb	879.38	K	Joback Method
tc	1076.91	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C54794706&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature