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

Inchi: InChI=1S/C16H29NO/c1-4-5-6-7-8-9-10-11-12-13-16(18)17-14-15(2)3/h10-13,15H,4-9,14
InchiKey: BBRMJCAPNGJKEM-AQASXUMVSA-N
Formula: C16H29NO
SMILES: CCCCCCCC=CC=CC(O)=NCC(C)C
Mol. weight [g/mol]: 251.41
CAS: 24738-51-0

Physical Properties

Property code	Value	Unit	Source
hf	-224.21	kJ/mol	Joback Method
hvap	70.81	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	5.072		Crippen Method
mcvol	239.250	ml/mol	McGowan Method
pc	1423.99	kPa	Joback Method
rinpol	2153.40		NIST Webbook
rinpol	2153.40		NIST Webbook
rinpol	2142.00		NIST Webbook
rinpol	2142.00		NIST Webbook
tb	742.10	K	Joback Method
tc	927.31	K	Joback Method

Sources

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=C24738510&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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