(E)-N-Isobutyldec-2-enamide

Inchi: InChI=1S/C14H27NO/c1-4-5-6-7-8-9-10-11-14(16)15-12-13(2)3/h10-11,13H,4-9,12H2,1-
InchiKey: BBZPUGFXXAPEJY-ZHACJKMWSA-N
Formula: C14H27NO
SMILES: CCCCCCCC=CC(O)=NCC(C)C
Mol. weight [g/mol]: 225.37
CAS: 73785-32-7

Physical Properties

Property code	Value	Unit	Source
hf	-300.15	kJ/mol	Joback Method
hvap	66.40	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.516		Crippen Method
mcvol	215.370	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
rinpol	1855.70		NIST Webbook
rinpol	1855.70		NIST Webbook
tb	692.18	K	Joback Method
tc	872.90	K	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C73785327&Units=SI

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