

Dodecanamide, N-octadecyl-

Inchi: InChI=1S/C30H61NO/c1-3-5-7-9-11-13-14-15-16-17-18-19-21-23-25-27-29-31-30(32)28
InchiKey: ILEZBUNFTXLGGO-UHFFFAOYSA-N
Formula: C30H61NO
SMILES: CCCCCCCCCCCCCCCCCCN=C(O)CCCCCCCCCCC
Mol. weight [g/mol]: 451.81

Physical Properties

Property code	Value	Unit	Source
hf	-742.33	kJ/mol	Joback Method
hvap	102.45	kJ/mol	Joback Method
log10ws	-11.36		Crippen Method
logp	11.125		Crippen Method
mcvol	445.110	ml/mol	McGowan Method
pc	593.15	kPa	Joback Method
rinpol	3254.00		NIST Webbook
rinpol	3254.00		NIST Webbook
tb	1054.54	K	Joback Method
tc	1336.86	K	Joback Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
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=U407579&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

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<https://www.chemeo.com/cid/88-401-9/Dodecanamide-N-octadecyl.pdf>

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