

Dodecanamide, N-undecyl-

Inchi: InChI=1S/C23H47NO/c1-3-5-7-9-11-13-15-17-19-21-23(25)24-22-20-18-16-14-12-10-8-6
InchiKey: BPSZFWGCBPKJH-UHFFFAOYSA-N
Formula: C23H47NO
SMILES: CCCCCCCCCCN=C(O)CCCCCCCCCCC
Mol. weight [g/mol]: 353.63

Physical Properties

Property code	Value	Unit	Source
hf	-597.85	kJ/mol	Joback Method
hvap	86.86	kJ/mol	Joback Method
log10ws	-8.43		Crippen Method
logp	8.395		Crippen Method
mcvol	346.480	ml/mol	McGowan Method
pc	848.01	kPa	Joback Method
rinsol	2758.00		NIST Webbook
rinsol	2758.00		NIST Webbook
tb	894.38	K	Joback Method
tc	1096.62	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=U407575&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
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

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<https://www.chemeo.com/cid/81-604-1/Dodecanamide-N-undecyl.pdf>

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