

# Octanamide, N-(3-methylphenyl)-

**Inchi:** InChI=1S/C15H23NO/c1-3-4-5-6-7-11-15(17)16-14-10-8-9-13(2)12-14/h8-10,12H,3-7,11  
**InchiKey:** ZXPDBJYUYVYWDF-UHFFFAOYSA-N  
**Formula:** C15H23NO  
**SMILES:** CCCCCCCC(O)=Nc1cccc(C)c1  
**Mol. weight [g/mol]:** 233.35

## Physical Properties

Property code	Value	Unit	Source
hf	-207.67	kJ/mol	Joback Method
hvap	72.00	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	4.944		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
rinpol	2023.00		NIST Webbook
tb	743.00	K	Joback Method
tc	942.28	K	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U306924&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** Log10 of Water solubility in mol/l

<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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