

# Benzamide, 3-methoxy-N-dodecyl-

**Inchi:** InChI=1S/C20H33NO2/c1-3-4-5-6-7-8-9-10-11-12-16-21-20(22)18-14-13-15-19(17-18)23  
**InchiKey:** XTDIHJWVBUGDLF-UHFFFAOYSA-N  
**Formula:** C20H33NO2  
**SMILES:** CCCCCCCCCCN=C(O)c1cccc(OC)c1  
**Mol. weight [g/mol]:** 319.48

## Physical Properties

Property code	Value	Unit	Source
hf	-443.09	kJ/mol	Joback Method
hvap	85.53	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	5.921		Crippen Method
mcvol	286.320	ml/mol	McGowan Method
pc	1233.74	kPa	Joback Method
rinpol	2648.00		NIST Webbook
rinpol	2648.00		NIST Webbook
tb	879.82	K	Joback Method
tc	1081.43	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U407520&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**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)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions

<b>log10ws:</b>	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>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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