

# Benzamide, N-(3-methylphenyl)-2-methyl-

<b>Inchi:</b>	InChI=1S/C15H15NO/c1-11-6-5-8-13(10-11)16-15(17)14-9-4-3-7-12(14)2/h3-10H,1-2H3,
<b>InchiKey:</b>	UEOKUJAEEOJMST-UHFFFAOYSA-N
<b>Formula:</b>	C15H15NO
<b>SMILES:</b>	<chem>Cc1cccc(NC(=O)c2ccccc2C)c1</chem>
<b>Mol. weight [g/mol]:</b>	225.29

## Physical Properties

Property code	Value	Unit	Source
gf	241.45	kJ/mol	Joback Method
hf	38.08	kJ/mol	Joback Method
hfus	28.61	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	3.556		Crippen Method
mvol	186.240	ml/mol	McGowan Method
pc	2629.85	kPa	Joback Method
rmpol	2049.00		NIST Webbook
tb	709.96	K	Joback Method
tc	950.27	K	Joback Method
tf	439.28	K	Joback Method
vc	0.701	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.89	J/mol×K	709.96	Joback Method
cpg	505.97	J/mol×K	750.01	Joback Method
cpg	519.86	J/mol×K	790.06	Joback Method
cpg	532.64	J/mol×K	830.12	Joback Method
cpg	544.37	J/mol×K	870.17	Joback Method
cpg	555.12	J/mol×K	910.22	Joback Method
cpg	564.95	J/mol×K	950.27	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307003&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307003&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccol:</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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