

# Benzamide, N-(3-methylphenyl)-4-ethyl-

<b>Inchi:</b>	InChI=1S/C16H17NO/c1-3-13-7-9-14(10-8-13)16(18)17-15-6-4-5-12(2)11-15/h4-11H,3H2
<b>InchiKey:</b>	HUVBOWFSUKATRD-UHFFFAOYSA-N
<b>Formula:</b>	C16H17NO
<b>SMILES:</b>	CCc1ccc(C(=O)Nc2cccc(C)c2)cc1
<b>Mol. weight [g/mol]:</b>	239.31

## Physical Properties

Property code	Value	Unit	Source
gf	249.87	kJ/mol	Joback Method
hf	17.44	kJ/mol	Joback Method
hfus	31.20	kJ/mol	Joback Method
hvap	70.27	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	3.810		Crippen Method
mcvol	200.330	ml/mol	McGowan Method
pc	2388.85	kPa	Joback Method
rinpola	2267.00		NIST Webbook
tb	732.84	K	Joback Method
tc	968.43	K	Joback Method
tf	450.55	K	Joback Method
vc	0.756	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.83	J/mol×K	732.84	Joback Method
cpg	559.26	J/mol×K	772.10	Joback Method
cpg	573.51	J/mol×K	811.37	Joback Method
cpg	586.64	J/mol×K	850.63	Joback Method
cpg	598.72	J/mol×K	889.90	Joback Method
cpg	609.82	J/mol×K	929.16	Joback Method
cpg	620.00	J/mol×K	968.43	Joback Method

# Sources

<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=U307014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307014&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>
<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>

# 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>hvap:</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>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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/40-607-3/Benzamide-N-3-methylphenyl-4-ethyl.pdf>

Generated by Cheméo on 2024-04-23 17:45:40.370579987 +0000 UTC m=+16183589.291157303.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.