

# Benzamide, N,N-diundecyl-4-bromo-

<b>Inchi:</b>	InChI=1S/C29H50BrNO/c1-3-5-7-9-11-13-15-17-19-25-31(29(32)27-21-23-28(30)24-22-2
<b>InchiKey:</b>	UAM0ZPMWBQKSBC-UHFFFAOYSA-N
<b>Formula:</b>	C29H50BrNO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCCCC)C(=O)c1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	508.62

## Physical Properties

Property code	Value	Unit	Source
gf	292.26	kJ/mol	Joback Method
hf	-435.55	kJ/mol	Joback Method
hfus	74.42	kJ/mol	Joback Method
hvap	98.31	kJ/mol	Joback Method
log10ws	-11.15		Crippen Method
logp	9.953		Crippen Method
mcvol	424.760	ml/mol	McGowan Method
pc	790.82	kPa	Joback Method
tb	1027.05	K	Joback Method
tc	1261.79	K	Joback Method
tf	597.73	K	Joback Method
vc	1.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1445.33	J/mol×K	1027.05	Joback Method
cpg	1466.29	J/mol×K	1066.17	Joback Method
cpg	1485.98	J/mol×K	1105.30	Joback Method
cpg	1504.55	J/mol×K	1144.42	Joback Method
cpg	1522.14	J/mol×K	1183.54	Joback Method
cpg	1538.89	J/mol×K	1222.66	Joback Method
cpg	1554.95	J/mol×K	1261.79	Joback Method

# Sources

<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=U308461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308461&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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