

# Sarcosine, N-(4-bromobenzoyl)-, ethyl ester

<b>Inchi:</b>	InChI=1S/C12H14BrNO3/c1-3-17-11(15)8-14(2)12(16)9-4-6-10(13)7-5-9/h4-7H,3,8H2,1-
<b>InchiKey:</b>	WXTBEGQNNCXRSQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H14BrNO3
<b>SMILES:</b>	CCOC(=O)CN(C)C(=O)c1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	300.15

## Physical Properties

Property code	Value	Unit	Source
gf	-84.80	kJ/mol	Joback Method
hf	-329.47	kJ/mol	Joback Method
hfus	33.18	kJ/mol	Joback Method
hvap	69.62	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.084		Crippen Method
mcvol	192.670	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
rinpola	2067.00		NIST Webbook
tb	714.38	K	Joback Method
tc	936.36	K	Joback Method
tf	478.30	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	485.82	J/mol×K	714.38	Joback Method
cpg	498.31	J/mol×K	751.38	Joback Method
cpg	509.88	J/mol×K	788.37	Joback Method
cpg	520.58	J/mol×K	825.37	Joback Method
cpg	530.45	J/mol×K	862.36	Joback Method
cpg	539.52	J/mol×K	899.36	Joback Method
cpg	547.84	J/mol×K	936.36	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321372&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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