

# 2-Propenal, 2-bromo-3-phenyl-

<b>Other names:</b>	Alphabrocine B 37 «alpha»-Bromocinnamaldehyde «alpha»-Bromocinnamic Aldehyde Cinnamaldehyde, «alpha»-bromo- 2-bromocinnamaldehyde
<b>Inchi:</b>	InChI=1S/C9H7BrO/c10-9(7-11)6-8-4-2-1-3-5-8/h1-7H/b9-6-
<b>InchiKey:</b>	WQRWNOKNRHCLHV-TWGQIWQCSA-N
<b>Formula:</b>	C9H7BrO
<b>SMILES:</b>	O=CC(Br)=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	211.06
<b>CAS:</b>	5443-49-2

## Physical Properties

Property code	Value	Unit	Source
gf	123.78	kJ/mol	Joback Method
hf	55.62	kJ/mol	Joback Method
hfus	19.57	kJ/mol	Joback Method
hvap	51.10	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.621		Crippen Method
mcvol	128.680	ml/mol	McGowan Method
pc	4156.97	kPa	Joback Method
tb	550.86	K	Joback Method
tc	794.52	K	Joback Method
tf	300.37	K	Joback Method
vc	0.491	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.48	J/mol×K	550.86	Joback Method
cpg	262.49	J/mol×K	591.47	Joback Method
cpg	272.56	J/mol×K	632.08	Joback Method

cpg	281.75	J/mol×K	672.69	Joback Method
cpg	290.16	J/mol×K	713.30	Joback Method
cpg	297.86	J/mol×K	753.91	Joback Method
cpg	304.94	J/mol×K	794.52	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=C5443492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5443492&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>

## 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>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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